

# SEQUENCE LISTING

<110> GOTO, Masaaki  
 TSUDA, Eisuke  
 MOCHIZUKI, Shin'ichi  
 YANO, Kazuki  
 KOBAYASHI, Fumie  
 SHIMA, Nobuyuki  
 YASUDA, Hisataka  
 NAKAGAWA, Nobuaki  
 MORINAGA, Tomonori  
 UEDA, Masatsugu  
 HIGASHIO, Kanji

<120> Novel Proteins and Methods for Producing the Proteins

<130> 16991.017

<150> US 10/232,858

<151> 2002-09-03

<150> US 08/915,004

<151> 1997-08-20

<150> PCT/JP96/00374

<151> 1996-02-20

<150> JP 207508/1995

<151> 1995-07-21

<150> JP 054977/1995

<151> 1995-02-20

<160> 108

<170> PatentIn version 3.1

<210> 1

<211> 6

<212> PRT

<213> Homo sapiens

<220>

<221> MISC\_FEATURE

<222> (1)..(1)

<223> X = unknown

<400> 1

Xaa Tyr His Phe Pro Lys

1 5

<210> 2

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> MISC\_FEATURE

<222> (1)..(1)

<223> X = unknown

<220>

<221> MISC\_FEATURE

<222> (5)..(5)

<223> X = unknown

<220>

<221> MISC\_FEATURE

<222> (13)..(13)

<223> X = unknown

<400> 2

Xaa	Gln	His	Ser	Xaa	Gln	Glu	Gln	Thr	Phe	Gln	Leu	Xaa	Lys
1				5					10				

<210> 3

<211> 12

<212> PRT

<213> Homo sapiens

<220>

<221> MISC\_FEATURE

<222> (1)..(1)

<223> X = unknown

<400> 3

Xaa	Ile	Arg	Phe	Leu	His	Ser	Phe	Thr	Met	Tyr	Lys
1				5					10		

<210> 4

<211> 380

<212> PRT

<213> Homo sapiens

<400> 4

Glu	Thr	Phe	Pro	Pro	Lys	Tyr	Leu	His	Tyr	Asp	Glu	Glu	Thr	Ser	His
1				5					10					15	

Gln	Leu	Leu	Cys	Asp	Lys	Cys	Pro	Pro	Gly	Thr	Tyr	Leu	Lys	Gln	His
			20					25					30		

Cys Thr Ala Lys Trp Lys Thr Val Cys Ala Pro Cys Pro Asp His Tyr  
 35 40 45

Tyr Thr Asp Ser Trp His Thr Ser Asp Glu Cys Leu Tyr Cys Ser Pro  
 50 55 60

Val Cys Lys Glu Leu Gln Tyr Val Lys Gln Glu Cys Asn Arg Thr His  
 65 70 75 80

Asn Arg Val Cys Glu Cys Lys Glu Gly Arg Tyr Leu Glu Ile Glu Phe  
 85 90 95

Cys Leu Lys His Arg Ser Cys Pro Pro Gly Phe Gly Val Val Gln Ala  
 100 105 110

Gly Thr Pro Glu Arg Asn Thr Val Cys Lys Arg Cys Pro Asp Gly Phe  
 115 120 125

Phe Ser Asn Glu Thr Ser Ser Lys Ala Pro Cys Arg Lys His Thr Asn  
 130 135 140

Cys Ser Val Phe Gly Leu Leu Leu Thr Gln Lys Gly Asn Ala Thr His  
 145 150 155 160

Asp Asn Ile Cys Ser Gly Asn Ser Glu Ser Thr Gln Lys Cys Gly Ile  
 165 170 175

Asp Val Thr Leu Cys Glu Glu Ala Phe Phe Arg Phe Ala Val Pro Thr  
 180 185 190

Lys Phe Thr Pro Asn Trp Leu Ser Val Leu Val Asp Asn Leu Pro Gly  
 195 200 205

Thr Lys Val Asn Ala Glu Ser Val Glu Arg Ile Lys Arg Gln His Ser  
 210 215 220

Ser Gln Glu Gln Thr Phe Gln Leu Leu Lys Leu Trp Lys His Gln Asn  
 225 230 235 240

Lys Asp Gln Asp Ile Val Lys Lys Ile Ile Gln Asp Ile Asp Leu Cys  
 245 250 255

Glu Asn Ser Val Gln Arg His Ile Gly His Ala Asn Leu Thr Phe Glu  
 260 265 270

Gln Leu Arg Ser Leu Met Glu Ser Leu Pro Gly Lys Lys Val Gly Ala  
 275 280 285

Glu Asp Ile Glu Lys Thr Ile Lys Ala Cys Lys Pro Ser Asp Gln Ile  
 290 295 300

Leu Lys Leu Leu Ser Leu Trp Arg Ile Lys Asn Gly Asp Gln Asp Thr  
 305 310 315 320

Leu Lys Gly Leu Met His Ala Leu Lys His Ser Lys Thr Tyr His Phe  
 325 330 335

Pro Lys Thr Val Thr Gln Ser Leu Lys Lys Thr Ile Arg Phe Leu His  
 340 345 350

Ser Phe Thr Met Tyr Lys Leu Tyr Gln Lys Leu Phe Leu Glu Met Ile  
 355 360 365

Gly Asn Gln Val Gln Ser Val Lys Ile Ser Cys Leu  
 370 375 380

<210> 5  
 <211> 401  
 <212> PRT  
 <213> Homo sapiens  
 <400> 5

Met Asn Asn Leu Leu Cys Cys Ala Leu Val Phe Leu Asp Ile Ser Ile  
 1 5 10 15

Lys Trp Thr Thr Gln Glu Thr Phe Pro Pro Lys Tyr Leu His Tyr Asp  
 20 25 30

Glu Glu Thr Ser His Gln Leu Leu Cys Asp Lys Cys Pro Pro Gly Thr  
 35 40 45

Tyr Leu Lys Gln His Cys Thr Ala Lys Trp Lys Thr Val Cys Ala Pro  
 50 55 60

Cys Pro Asp His Tyr Tyr Thr Asp Ser Trp His Thr Ser Asp Glu Cys  
 65 70 75 80

Leu Tyr Cys Ser Pro Val Cys Lys Glu Leu Gln Tyr Val Lys Gln Glu  
85 90 95

Cys Asn Arg Thr His Asn Arg Val Cys Glu Cys Lys Glu Gly Arg Tyr  
100 105 110

Leu Glu Ile Glu Phe Cys Leu Lys His Arg Ser Cys Pro Pro Gly Phe  
115 120 125

Gly Val Val Gln Ala Gly Thr Pro Glu Arg Asn Thr Val Cys Lys Arg  
130 135 140

Cys Pro Asp Gly Phe Phe Ser Asn Glu Thr Ser Ser Lys Ala Pro Cys  
145 150 155 160

Arg Lys His Thr Asn Cys Ser Val Phe Gly Leu Leu Leu Thr Gln Lys  
165 170 175

Gly Asn Ala Thr His Asp Asn Ile Cys Ser Gly Asn Ser Glu Ser Thr  
180 185 190

Gln Lys Cys Gly Ile Asp Val Thr Leu Cys Glu Glu Ala Phe Phe Arg  
195 200 205

Phe Ala Val Pro Thr Lys Phe Thr Pro Asn Trp Leu Ser Val Leu Val  
210 215 220

Asp Asn Leu Pro Gly Thr Lys Val Asn Ala Glu Ser Val Glu Arg Ile  
225 230 235 240

Lys Arg Gln His Ser Ser Gln Glu Gln Thr Phe Gln Leu Leu Lys Leu  
245 250 255

Trp Lys His Gln Asn Lys Asp Gln Asp Ile Val Lys Lys Ile Ile Gln  
260 265 270

Asp Ile Asp Leu Cys Glu Asn Ser Val Gln Arg His Ile Gly His Ala  
275 280 285

Asn Leu Thr Phe Glu Gln Leu Arg Ser Leu Met Glu Ser Leu Pro Gly  
290 295 300

Lys Lys Val Gly Ala Glu Asp Ile Glu Lys Thr Ile Lys Ala Cys Lys  
 305 310 315 320

Pro Ser Asp Gln Ile Leu Lys Leu Leu Ser Leu Trp Arg Ile Lys Asn  
 325 330 335

Gly Asp Gln Asp Thr Leu Lys Gly Leu Met His Ala Leu Lys His Ser  
 340 345 350

Lys Thr Tyr His Phe Pro Lys Thr Val Thr Gln Ser Leu Lys Lys Thr  
 355 360 365

Ile Arg Phe Leu His Ser Phe Thr Met Tyr Lys Leu Tyr Gln Lys Leu  
 370 375 380

Phe Leu Glu Met Ile Gly Asn Gln Val Gln Ser Val Lys Ile Ser Cys  
 385 390 395 400

Leu

<210> 6  
 <211> 1206  
 <212> DNA  
 <213> Homo sapiens

<400> 6  
 atgaacaact tgctgtgctg cgcgctcgtg tttctggaca tctccattaa gtggaccacc 60  
 caggaaacgt ttcttccaaa gtaccttcat tatgacgaag aaacctctca tcagctgttg 120  
 tgtgacaaat gtctctctgg tacctaccta aaacaacact gtacagcaaa gtggaagacc 180  
 gtgtgcgccc cttgccctga ccactactac acagacagct ggcacaccag tgacgagtgt 240  
 ctatactgca gccccgtgtg caaggagctg cagtacgtca agcaggagtgt caatcgcacc 300  
 cacaaccgcg tgtgcgaatg caaggaagg cgctaccttg agatagagtt ctgcttgaaa 360  
 cataggagct gccctcctgg atttgagtg gtgcaagctg gaaccccaga gcgaaatata 420  
 gtttgcaaaa gatgtccaga tgggttcttc tcaaatgaga cgtcatctaa agcaccctgt 480  
 agaaaacaca caaattgcag tgtcttttgt ctcttgctaa ctcagaaagg aaatgcaaca 540  
 cacgacaaca tatgttccgg aaacagtga tcaactcaaa aatgtggaat agatgttacc 600  
 ctgtgtgagg aggcattctt cagggttgct gttcctacaa agtttacgcc taactggctt 660

```

agtgtcttgg tagacaattht gcctggcacc aaagtaaacy cagagagtgt agagaggata 720
aaacggcaac acagctcaca agaacagact ttccagctgc tgaagttatg gaaacatcaa 780
aaciaagacc aagatatagt caagaagatc atccaagata ttgacctctg tgaaaacagc 840
gtgcagcggc acattggaca tgctaacctc accttcgagc agcttcgtag cttgatggaa 900
agcttaccgg gaaagaaaagt gggagcagaa gacattgaaa aaacaataaa ggcatgcaaa 960
cccagtgacc agatcctgaa gctgctcagt ttgtggcgaa taaaaaatgg cgaccaagac 1020
accttgaagg gcctaattga cgcactaaag cactcaaaga cgtaccactt tcccaaaaact 1080
gtcactcaga gtctaaagaa gaccatcagg ttccttcaca gcttcacaat gtacaaaattg 1140
tatcagaagt tattttttaga aatgataggt aaccagggtcc aatcagtaaa aataagctgc 1200
ttataa 1206

```

```

<210> 7
<211> 15
<212> PRT
<213> Homo sapiens

```

```

<400> 7

```

```

Glu Thr Phe Pro Pro Lys Tyr Leu His Tyr Asp Glu Glu Thr Ser
1          5          10          15

```

```

<210> 8
<211> 1185
<212> DNA
<213> Homo sapiens

```

```

<400> 8
atgaacaact tgctgtgctg cgcgctcgtg tttctggaca tctccattaa gtggaccacc 60
caggaaacgt ttcttccaaa gtaccttcat tatgacgaag aaacctctca tcagctgttg 120
tgtgacaaat gtcttctctg tacctaccta aaacaacact gtacagcaaa gtggaagacc 180
gtgtgcgccc cttgccctga ccactactac acagacagct ggcacaccag tgacgagtgt 240
ctataactga gccccgtgtg caaggagtgc aatcgacccc acaaccgcgt gtgcgaatgc 300
aaggaagggc gctaccttga gatagagttc tgcttgaaac ataggagctg ccctcctgga 360
tttgagagtg tgcaagctgg aaccccagag cgaaatacag tttgcaaaaag atgtccagat 420
gggttcttct caaatgagac gtcattctaaa gcaccctgta gaaaacacac aaattgcagt 480
gtcttttggtc tcttgctaac tcagaaagga aatgcaacac acgacaacat atgttccgga 540
aacagtgaat caactcaaaa atgtggaata gatgttacct tgtgtgagga ggcattcttc 600

```

```

aggtttgctg ttctacaaa gtttacgctt aactggctta gtgtcttggt agacaatttg      660
cctggcacca aagtaaacgc agagagtgtg gagaggataa aacggcaaca cagctcacia      720
gaacagactt tccagctgct gaagttatgg aaacatcaaa acaaagacca agatatagtc      780
aagaagatca tccaagatat tgacctctgt gaaaacagcg tgcagcggca cattggacat      840
gctaacctca ccttcgagca gcttcgtagc ttgatggaaa gcttaccggg aaagaaagtg      900
ggagcagaag acattgaaaa aacaataaag gcatgcaaac ccagtgaacca gatcctgaag      960
ctgctcagtt tgtggcgaat aaaaaatggc gaccaagaca ccttgaaggg cctaatagcac     1020
gcactaaagc actcaaagac gtaccacttt cccaaaactg tcactcagag tctaaagaag     1080
accatcaggt tccttcacag cttcacaatg taaaaattgt atcagaagtt atttttagaa     1140
atgataggta accaggtcca atcagtaaaa ataagctgct tataa                        1185

```

```

<210> 9
<211> 394
<212> PRT
<213> Homo sapiens

```

```

<400> 9

```

```

Met Asn Asn Leu Leu Cys Cys Ala Leu Val Phe Leu Asp Ile Ser Ile
1              5              10              15

```

```

Lys Trp Thr Thr Gln Glu Thr Phe Pro Pro Lys Tyr Leu His Tyr Asp
              20              25              30

```

```

Glu Glu Thr Ser His Gln Leu Leu Cys Asp Lys Cys Pro Pro Gly Thr
              35              40              45

```

```

Tyr Leu Lys Gln His Cys Thr Ala Lys Trp Lys Thr Val Cys Ala Pro
50              55              60

```

```

Cys Pro Asp His Tyr Tyr Thr Asp Ser Trp His Thr Ser Asp Glu Cys
65              70              75              80

```

```

Leu Tyr Cys Ser Pro Val Cys Lys Glu Cys Asn Arg Thr His Asn Arg
              85              90              95

```

```

Val Cys Glu Cys Lys Glu Gly Arg Tyr Leu Glu Ile Glu Phe Cys Leu
              100              105              110

```



Lys His Arg Ser Cys Pro Pro Gly Phe Gly Val Val Gln Ala Gly Thr  
 115 120 125

Pro Glu Arg Asn Thr Val Cys Lys Arg Cys Pro Asp Gly Phe Phe Ser  
 130 135 140

Asn Glu Thr Ser Ser Lys Ala Pro Cys Arg Lys His Thr Asn Cys Ser  
 145 150 155 160

Val Phe Gly Leu Leu Leu Thr Gln Lys Gly Asn Ala Thr His Asp Asn  
 165 170 175

Ile Cys Ser Gly Asn Ser Glu Ser Thr Gln Lys Cys Gly Ile Asp Val  
 180 185 190

Thr Leu Cys Glu Glu Ala Phe Phe Arg Phe Ala Val Pro Thr Lys Phe  
 195 200 205

Thr Pro Asn Trp Leu Ser Val Leu Val Asp Asn Leu Pro Gly Thr Lys  
 210 215 220

Val Asn Ala Glu Ser Val Glu Arg Ile Lys Arg Gln His Ser Ser Gln  
 225 230 235 240

Glu Gln Thr Phe Gln Leu Leu Lys Leu Trp Lys His Gln Asn Lys Asp  
 245 250 255

Gln Asp Ile Val Lys Lys Ile Ile Gln Asp Ile Asp Leu Cys Glu Asn  
 260 265 270

Ser Val Gln Arg His Ile Gly His Ala Asn Leu Thr Phe Glu Gln Leu  
 275 280 285

Arg Ser Leu Met Glu Ser Leu Pro Gly Lys Lys Val Gly Ala Glu Asp  
 290 295 300

Ile Glu Lys Thr Ile Lys Ala Cys Lys Pro Ser Asp Gln Ile Leu Lys  
 305 310 315 320

Leu Leu Ser Leu Trp Arg Ile Lys Asn Gly Asp Gln Asp Thr Leu Lys  
 325 330 335

Gly Leu Met His Ala Leu Lys His Ser Lys Thr Tyr His Phe Pro Lys

340

345

350

Thr Val Thr Gln Ser Leu Lys Lys Thr Ile Arg Phe Leu His Ser Phe  
 355 360 365

Thr Met Tyr Lys Leu Tyr Gln Lys Leu Phe Leu Glu Met Ile Gly Asn  
 370 375 380

Gln Val Gln Ser Val Lys Ile Ser Cys Leu  
 385 390

<210> 10  
 <211> 1089  
 <212> DNA  
 <213> Homo sapiens

<400> 10  
 atgaacaagt tgctgtgctg cgcgctcgtg tttctggaca tctccattaa gtggaccacc 60  
 caggaaacgt ttcttccaaa gtaccttcat tatgacgaag aaacctctca tcagctgttg 120  
 tgtgacaaat gtcttctctg tacctaccta aaacaacact gtacagcaaa gtggaagacc 180  
 gtgtgcgccc cttgccctga ccactactac acagacagct ggcacaccag tgacgagtgt 240  
 ctatactgca gccccgtgtg caaggagctg cagtacgtca agcaggagtgt caatcgcacc 300  
 cacaaccgcg tgtgcgaatg caaggaagg cgctaccttg agatagagtt ctgcttgaaa 360  
 cataggagct gccctcctgg atttgagtg gtgcaagctg gaaccccgaga gcgaaataca 420  
 gtttgcaaaa gatgtccaga tgggttcttc tcaaatgaga cgtcatctaa agcacctgt 480  
 agaaaacaca caaattgcag tgtcttttgt ctcttgctaa ctcagaaagg aaatgcaaca 540  
 cacgacaaca tatgttccgg aaacagtga tcaactcaaa aatgtggaat agatgttacc 600  
 ctgtgtgagg aggcattctt caggtttgct gttcctacaa agtttacgcc taactggctt 660  
 agtgtcttgg tagacaattt gcctggcacc aaagtaaagc cagagagtgt agagaggata 720  
 aaacggcaac acagctcaca agaacagact ttccagctgc tgaagttatg gaaacatcaa 780  
 aacaaagacc aagatatagt caagaagatc atccaagata ttgacctctg tgaaaacagc 840  
 gtgcagcggc acattggaca tgctaacctc agtttgtggc gaataaaaaa tggcgaccaa 900  
 gacaccttga agggcctaata gcacgcacta aagcactcaa agacgtacca ctttcccaaa 960  
 actgtcactc agagtctaaa gaagaccatc aggttccttc acagcttcac aatgtacaaa 1020  
 ttgtatcaga agttatTTTT agaaatgata ggtaaccagg tccaatcagt aaaaataagc 1080

tgcttataa

1089

<210> 11  
<211> 362  
<212> PRT  
<213> Homo sapiens

<400> 11

Met Asn Lys Leu Leu Cys Cys Ala Leu Val Phe Leu Asp Ile Ser Ile  
1 5 10 15

Lys Trp Thr Thr Gln Glu Thr Phe Pro Pro Lys Tyr Leu His Tyr Asp  
20 25 30

Glu Glu Thr Ser His Gln Leu Leu Cys Asp Lys Cys Pro Pro Gly Thr  
35 40 45

Tyr Leu Lys Gln His Cys Thr Ala Lys Trp Lys Thr Val Cys Ala Pro  
50 55 60

Cys Pro Asp His Tyr Tyr Thr Asp Ser Trp His Thr Ser Asp Glu Cys  
65 70 75 80

Leu Tyr Cys Ser Pro Val Cys Lys Glu Leu Gln Tyr Val Lys Gln Glu  
85 90 95

Cys Asn Arg Thr His Asn Arg Val Cys Glu Cys Lys Glu Gly Arg Tyr  
100 105 110

Leu Glu Ile Glu Phe Cys Leu Lys His Arg Ser Cys Pro Pro Gly Phe  
115 120 125

Gly Val Val Gln Ala Gly Thr Pro Glu Arg Asn Thr Val Cys Lys Arg  
130 135 140

Cys Pro Asp Gly Phe Phe Ser Asn Glu Thr Ser Ser Lys Ala Pro Cys  
145 150 155 160

Arg Lys His Thr Asn Cys Ser Val Phe Gly Leu Leu Leu Thr Gln Lys  
165 170 175

Gly Asn Ala Thr His Asp Asn Ile Cys Ser Gly Asn Ser Glu Ser Thr  
180 185 190

Gln Lys Cys Gly Ile Asp Val Thr Leu Cys Glu Glu Ala Phe Phe Arg  
 195 200 205

Phe Ala Val Pro Thr Lys Phe Thr Pro Asn Trp Leu Ser Val Leu Val  
 210 215 220

Asp Asn Leu Pro Gly Thr Lys Val Asn Ala Glu Ser Val Glu Arg Ile  
 225 230 235 240

Lys Arg Gln His Ser Ser Gln Glu Gln Thr Phe Gln Leu Leu Lys Leu  
 245 250 255

Trp Lys His Gln Asn Lys Asp Gln Asp Ile Val Lys Lys Ile Ile Gln  
 260 265 270

Asp Ile Asp Leu Cys Glu Asn Ser Val Gln Arg His Ile Gly His Ala  
 275 280 285

Asn Leu Ser Leu Trp Arg Ile Lys Asn Gly Asp Gln Asp Thr Leu Lys  
 290 295 300

Gly Leu Met His Ala Leu Lys His Ser Lys Thr Tyr His Phe Pro Lys  
 305 310 315 320

Thr Val Thr Gln Ser Leu Lys Lys Thr Ile Arg Phe Leu His Ser Phe  
 325 330 335

Thr Met Tyr Lys Leu Tyr Gln Lys Leu Phe Leu Glu Met Ile Gly Asn  
 340 345 350

Gln Val Gln Ser Val Lys Ile Ser Cys Leu  
 355 360

<210> 12  
 <211> 465  
 <212> DNA  
 <213> Homo sapiens

<400> 12  
 atgaacaagt tgctgtgctg ctcgctcgtg tttctggaca tctccattaa gtggaccacc 60  
 caggaaacgt ttcttccaaa gtaccttcat tatgacgaag aaacctctca tcagctgttg 120  
 tgtgacaaat gtcttctctgg tacctaccta aaacaacact gtacagcaaa gtggaagacc 180

gtgtgcgccc cttgccctga ccactactac acagacagct ggacacaccag tgacgagtgt 240  
ctatactgca gccccgtgtg caaggagctg cagtacgtca agcaggagtg caatcgcacc 300  
cacaaccgcg tgtgcgaatg caaggaaggc cgctaccttg agatagagtt ctgcttgaaa 360  
cataggagct gccctcctgg atttggagtg gtgcaagctg gtacgtgtca atgtgcagca 420  
aaattaatta ggatcatgca aagtcagata gttgtgacag ttttag 465

<210> 13  
<211> 154  
<212> PRT  
<213> Homo sapiens

<400> 13

Met Asn Lys Leu Leu Cys Cys Ser Leu Val Phe Leu Asp Ile Ser Ile  
1 5 10 15

Lys Trp Thr Thr Gln Glu Thr Phe Pro Pro Lys Tyr Leu His Tyr Asp  
20 25 30

Glu Glu Thr Ser His Gln Leu Leu Cys Asp Lys Cys Pro Pro Gly Thr  
35 40 45

Tyr Leu Lys Gln His Cys Thr Ala Lys Trp Lys Thr Val Cys Ala Pro  
50 55 60

Cys Pro Asp His Tyr Tyr Thr Asp Ser Trp His Thr Ser Asp Glu Cys  
65 70 75 80

Leu Tyr Cys Ser Pro Val Cys Lys Glu Leu Gln Tyr Val Lys Gln Glu  
85 90 95

Cys Asn Arg Thr His Asn Arg Val Cys Glu Cys Lys Glu Gly Arg Tyr  
100 105 110

Leu Glu Ile Glu Phe Cys Leu Lys His Arg Ser Cys Pro Pro Gly Phe  
115 120 125

Gly Val Val Gln Ala Gly Thr Cys Gln Cys Ala Ala Lys Leu Ile Arg  
130 135 140

Ile Met Gln Ser Gln Ile Val Val Thr Val  
145 150

<210> 14  
 <211> 438  
 <212> DNA  
 <213> Homo sapiens

<400> 14  
 atgaacaagt tgctgtgctg cgcgctcgtg tttctggaca tctccattaa gtggaccacc 60  
 caggaaacgt ttcttccaaa gtaccttcat tatgacgaag aaacctctca tcagctgttg 120  
 tgtgacaaat gtcttctctg tacctaccta aaacaacact gtacagcaaa gtggaagacc 180  
 gtgtgcgccc cttgccctga ccactactac acagacagct ggcacaccag tgacgagtgt 240  
 ctatactgca gccccgtgtg caaggagctg cagtacgtca agcaggagtg caatcgcacc 300  
 cacaaccgcg tgtgcgaatg caaggaaggg cgctaccttg agatagagtt ctgcttgaaa 360  
 cataggagct gccctcctgg atttggagtg gtgcaagctg gatgcaggag aagacccaag 420  
 ccacagatat gtatctga 438

<210> 15  
 <211> 145  
 <212> PRT  
 <213> Homo sapiens

<400> 15

Met Asn Lys Leu Leu Cys Cys Ala Leu Val Phe Leu Asp Ile Ser Ile  
 1 5 10 15

Lys Trp Thr Thr Gln Glu Thr Phe Pro Pro Lys Tyr Leu His Tyr Asp  
 20 25 30

Glu Glu Thr Ser His Gln Leu Leu Cys Asp Lys Cys Pro Pro Gly Thr  
 35 40 45

Tyr Leu Lys Gln His Cys Thr Ala Lys Trp Lys Thr Val Cys Ala Pro  
 50 55 60

Cys Pro Asp His Tyr Tyr Thr Asp Ser Trp His Thr Ser Asp Glu Cys  
 65 70 75 80

Leu Tyr Cys Ser Pro Val Cys Lys Glu Leu Gln Tyr Val Lys Gln Glu  
 85 90 95

Cys Asn Arg Thr His Asn Arg Val Cys Glu Cys Lys Glu Gly Arg Tyr  
 100 105 110

Leu Glu Ile Glu Phe Cys Leu Lys His Arg Ser Cys Pro Pro Gly Phe  
115 120 125

Gly Val Val Gln Ala Gly Cys Arg Arg Arg Pro Lys Pro Gln Ile Cys  
130 135 140

Ile  
145

<210> 16  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic Sequence

<400> 16  
aattaaccct cactaaaggg 20

<210> 17  
<211> 22  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic Sequence

<400> 17  
gtaatacgac tcactatagg gc 22

<210> 18  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic Sequence

<400> 18  
acatcaaaac aaagaccaag 20

<210> 19  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic Sequence

<400> 19	
tcttgggtcctt tgttttgatg	20
<210> 20	
<211> 20	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Synthetic Sequence	
<400> 20	
ttattcgcca caaactgagc	20
<210> 21	
<211> 20	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Synthetic Sequence	
<400> 21	
ttgtgaagct gtgaaggaac	20
<210> 22	
<211> 20	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Synthetic Sequence	
<400> 22	
gctcagtttg tggcgaataa	20
<210> 23	
<211> 20	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Synthetic Sequence	
<400> 23	
gtgggagcag aagacattga	20
<210> 24	
<211> 20	
<212> DNA	
<213> Artificial Sequence	



<220>  
 <223> Synthetic Sequence  
  
 <400> 24  
 aatgaacaac ttgctgtgct 20  
  
 <210> 25  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Sequence  
  
 <400> 25  
 tgacaaatgt cctcctggta 20  
  
 <210> 26  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Sequence  
  
 <400> 26  
 aggtaggtac caggaggaca 20  
  
 <210> 27  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Sequence  
  
 <400> 27  
 gagctgccct cctggatttg 20  
  
 <210> 28  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Sequence  
  
 <400> 28  
 caaactgtat ttcgctctgg 20  
  
 <210> 29

<211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Sequence  
  
 <400> 29  
 gtgtgaggag gcattcttca 20  
  
 <210> 30  
 <211> 32  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Sequence  
  
 <400> 30  
 gaatcaactc aaaaaagtgg aatagatggt ac 32  
  
 <210> 31  
 <211> 32  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Sequence  
  
 <400> 31  
 gtaacatcta ttccactttt ttgagttgat tc 32  
  
 <210> 32  
 <211> 30  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Sequence  
  
 <400> 32  
 atagatgtta ccctgagtga ggaggcattc 30  
  
 <210> 33  
 <211> 30  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Sequence  
  
 <400> 33  
 gaatgcctcc tcactcaggg taacatctat 30

<210> 34  
 <211> 31  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Sequence  
  
 <400> 34  
 caagatattg acctcagtga aaacagcgtg c 31  
  
 <210> 35  
 <211> 31  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Sequence  
  
 <400> 35  
 gcacgctggtt ttactgagg gcaatatctt g 31  
  
 <210> 36  
 <211> 31  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Sequence  
  
 <400> 36  
 aaaacaataa aggcaagcaa acccagtgac c 31  
  
 <210> 37  
 <211> 31  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Sequence  
  
 <400> 37  
 ggtcactggg tttgcttgcc tttattgttt t 31  
  
 <210> 38  
 <211> 31  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Sequence

<400> 38  
 tcagtaaaaa taagcagctt ataactggcc a 31

<210> 39  
 <211> 31  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Sequence

<400> 39  
 tggccagtta taagctgctt atttttactg a 31

<210> 40  
 <211> 22  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Sequence

<400> 40  
 ttgggggttta ttggaggaga tg 22

<210> 41  
 <211> 36  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Sequence

<400> 41  
 accaccagg aaccttgccc tgaccactac tacaca 36

<210> 42  
 <211> 36  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Sequence

<400> 42  
 gtcagggcaa ggttcctggg tgggtccactt aatgga 36

<210> 43  
 <211> 36  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Sequence  
  
 <400> 43  
 accgtgtgcg ccgaatgcaa ggaagggcgc tacctt 36  
  
 <210> 44  
 <211> 36  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Sequence  
  
 <400> 44  
 ttccttgcat tcggcgcaca cggtcttcca ctttgc 36  
  
 <210> 45  
 <211> 36  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Sequence  
  
 <400> 45  
 aaccgcgtgt gcagatgtcc agatgggttc ttctca 36  
  
 <210> 46  
 <211> 36  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Sequence  
  
 <400> 46  
 atctggacat ctgcacacgc ggttgtgggt gcgatt 36  
  
 <210> 47  
 <211> 36  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Sequence  
  
 <400> 47  
 acagtttgca aatccggaag cagtgaatca actcaa 36  
  
 <210> 48

<211> 36  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Sequence  
  
 <400> 48  
 actgtttccg gatttgcaaa ctgtatttcg ctctgg 36  
  
 <210> 49  
 <211> 36  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Sequence  
  
 <400> 49  
 aatgtggaat agatattgac ctctgtgaaa acagcg 36  
  
 <210> 50  
 <211> 36  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Sequence  
  
 <400> 50  
 agaggtcaat atctattcca catttttgag ttgatt 36  
  
 <210> 51  
 <211> 36  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Sequence  
  
 <400> 51  
 agatcatcca agacgcacta aagcactcaa agacgt 36  
  
 <210> 52  
 <211> 36  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Sequence  
  
 <400> 52  
 gctttagtgc gtcttggatg atcttcttga ctatat 36

<210> 53  
<211> 29  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic Sequence

<400> 53  
ggctcgagcg cccagccgcc gcctccaag 29

<210> 54  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic Sequence

<400> 54  
tttgagtgct ttagtgctg 20

<210> 55  
<211> 30  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic Sequence

<400> 55  
tcagtaaaaa taagctaact ggaaatggcc 30

<210> 56  
<211> 30  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic Sequence

<400> 56  
ggccatttcc agttagctta tttttactga 30

<210> 57  
<211> 29  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic Sequence

<400> 57  
 ccggatcctc agtgcttttag tgcgtgcat 29

<210> 58  
 <211> 29  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Sequence

<400> 58  
 ccggatcctc attggatgat cttcttgac 29

<210> 59  
 <211> 29  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Sequence

<400> 59  
 ccggatcctc atattccaca tttttgagt 29

<210> 60  
 <211> 29  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Sequence

<400> 60  
 ccggatcctc atttgcaaac tgtatttcg 29

<210> 61  
 <211> 29  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Sequence

<400> 61  
 ccggatcctc attcgcacac gcggttggtg 29

<210> 62  
 <211> 401  
 <212> PRT  
 <213> Homo sapiens



<400> 62

Met Asn Asn Leu Leu Cys Cys Ala Leu Val Phe Leu Asp Ile Ser Ile  
1 5 10 15

Lys Trp Thr Thr Gln Glu Thr Phe Pro Pro Lys Tyr Leu His Tyr Asp  
20 25 30

Glu Glu Thr Ser His Gln Leu Leu Cys Asp Lys Cys Pro Pro Gly Thr  
35 40 45

Tyr Leu Lys Gln His Cys Thr Ala Lys Trp Lys Thr Val Cys Ala Pro  
50 55 60

Cys Pro Asp His Tyr Tyr Thr Asp Ser Trp His Thr Ser Asp Glu Cys  
65 70 75 80

Leu Tyr Cys Ser Pro Val Cys Lys Glu Leu Gln Tyr Val Lys Gln Glu  
85 90 95

Cys Asn Arg Thr His Asn Arg Val Cys Glu Cys Lys Glu Gly Arg Tyr  
100 105 110

Leu Glu Ile Glu Phe Cys Leu Lys His Arg Ser Cys Pro Pro Gly Phe  
115 120 125

Gly Val Val Gln Ala Gly Thr Pro Glu Arg Asn Thr Val Cys Lys Arg  
130 135 140

Cys Pro Asp Gly Phe Phe Ser Asn Glu Thr Ser Ser Lys Ala Pro Cys  
145 150 155 160

Arg Lys His Thr Asn Cys Ser Val Phe Gly Leu Leu Leu Thr Gln Lys  
165 170 175

Gly Asn Ala Thr His Asp Asn Ile Cys Ser Gly Asn Ser Glu Ser Thr  
180 185 190

Gln Lys Ser Gly Ile Asp Val Thr Leu Cys Glu Glu Ala Phe Phe Arg  
195 200 205

Phe Ala Val Pro Thr Lys Phe Thr Pro Asn Trp Leu Ser Val Leu Val  
210 215 220

Asp Asn Leu Pro Gly Thr Lys Val Asn Ala Glu Ser Val Glu Arg Ile  
 225 230 235 240

Lys Arg Gln His Ser Ser Gln Glu Gln Thr Phe Gln Leu Leu Lys Leu  
 245 250 255

Trp Lys His Gln Asn Lys Asp Gln Asp Ile Val Lys Lys Ile Ile Gln  
 260 265 270

Asp Ile Asp Leu Cys Glu Asn Ser Val Gln Arg His Ile Gly His Ala  
 275 280 285

Asn Leu Thr Phe Glu Gln Leu Arg Ser Leu Met Glu Ser Leu Pro Gly  
 290 295 300

Lys Lys Val Gly Ala Glu Asp Ile Glu Lys Thr Ile Lys Ala Cys Lys  
 305 310 315 320

Pro Ser Asp Gln Ile Leu Lys Leu Leu Ser Leu Trp Arg Ile Lys Asn  
 325 330 335

Gly Asp Gln Asp Thr Leu Lys Gly Leu Met His Ala Leu Lys His Ser  
 340 345 350

Lys Thr Tyr His Phe Pro Lys Thr Val Thr Gln Ser Leu Lys Lys Thr  
 355 360 365

Ile Arg Phe Leu His Ser Phe Thr Met Tyr Lys Leu Tyr Gln Lys Leu  
 370 375 380

Phe Leu Glu Met Ile Gly Asn Gln Val Gln Ser Val Lys Ile Ser Cys  
 385 390 395 400

Leu

<210> 63  
 <211> 401  
 <212> PRT  
 <213> Homo sapiens

<400> 63

Met Asn Asn Leu Leu Cys Cys Ala Leu Val Phe Leu Asp Ile Ser Ile  
 1 5 10 15  
 Lys Trp Thr Thr Gln Glu Thr Phe Pro Pro Lys Tyr Leu His Tyr Asp  
 20 25 30  
 Glu Glu Thr Ser His Gln Leu Leu Cys Asp Lys Cys Pro Pro Gly Thr  
 35 40 45  
 Tyr Leu Lys Gln His Cys Thr Ala Lys Trp Lys Thr Val Cys Ala Pro  
 50 55 60  
 Cys Pro Asp His Tyr Tyr Thr Asp Ser Trp His Thr Ser Asp Glu Cys  
 65 70 75 80  
 Leu Tyr Cys Ser Pro Val Cys Lys Glu Leu Gln Tyr Val Lys Gln Glu  
 85 90 95  
 Cys Asn Arg Thr His Asn Arg Val Cys Glu Cys Lys Glu Gly Arg Tyr  
 100 105 110  
 Leu Glu Ile Glu Phe Cys Leu Lys His Arg Ser Cys Pro Pro Gly Phe  
 115 120 125  
 Gly Val Val Gln Ala Gly Thr Pro Glu Arg Asn Thr Val Cys Lys Arg  
 130 135 140  
 Cys Pro Asp Gly Phe Phe Ser Asn Glu Thr Ser Ser Lys Ala Pro Cys  
 145 150 155 160  
 Arg Lys His Thr Asn Cys Ser Val Phe Gly Leu Leu Leu Thr Gln Lys  
 165 170 175  
 Gly Asn Ala Thr His Asp Asn Ile Cys Ser Gly Asn Ser Glu Ser Thr  
 180 185 190  
 Gln Lys Cys Gly Ile Asp Val Thr Leu Ser Glu Glu Ala Phe Phe Arg  
 195 200 205  
 Phe Ala Val Pro Thr Lys Phe Thr Pro Asn Trp Leu Ser Val Leu Val  
 210 215 220  
 Asp Asn Leu Pro Gly Thr Lys Val Asn Ala Glu Ser Val Glu Arg Ile

225	230	235	240
Lys Arg Gln His Ser Ser Gln Glu Gln Thr Phe Gln Leu Leu Lys Leu	245	250	255
Trp Lys His Gln Asn Lys Asp Gln Asp Ile Val Lys Lys Ile Ile Gln	260	265	270
Asp Ile Asp Leu Cys Glu Asn Ser Val Gln Arg His Ile Gly His Ala	275	280	285
Asn Leu Thr Phe Glu Gln Leu Arg Ser Leu Met Glu Ser Leu Pro Gly	290	295	300
Lys Lys Val Gly Ala Glu Asp Ile Glu Lys Thr Ile Lys Ala Cys Lys	305	310	315
Pro Ser Asp Gln Ile Leu Lys Leu Leu Ser Leu Trp Arg Ile Lys Asn	325	330	335
Gly Asp Gln Asp Thr Leu Lys Gly Leu Met His Ala Leu Lys His Ser	340	345	350
Lys Thr Tyr His Phe Pro Lys Thr Val Thr Gln Ser Leu Lys Lys Thr	355	360	365
Ile Arg Phe Leu His Ser Phe Thr Met Tyr Lys Leu Tyr Gln Lys Leu	370	375	380
Phe Leu Glu Met Ile Gly Asn Gln Val Gln Ser Val Lys Ile Ser Cys	385	390	395
			400

Leu

<210> 64  
 <211> 401  
 <212> PRT  
 <213> Homo sapiens

<400> 64

Met Asn Asn Leu Leu Cys Cys Ala Leu Val Phe Leu Asp Ile Ser Ile
1 5 10 15

Lys Trp Thr Thr Gln Glu Thr Phe Pro Pro Lys Tyr Leu His Tyr Asp  
 20 25 30

Glu Glu Thr Ser His Gln Leu Leu Cys Asp Lys Cys Pro Pro Gly Thr  
 35 40 45

Tyr Leu Lys Gln His Cys Thr Ala Lys Trp Lys Thr Val Cys Ala Pro  
 50 55 60

Cys Pro Asp His Tyr Tyr Thr Asp Ser Trp His Thr Ser Asp Glu Cys  
 65 70 75 80

Leu Tyr Cys Ser Pro Val Cys Lys Glu Leu Gln Tyr Val Lys Gln Glu  
 85 90 95

Cys Asn Arg Thr His Asn Arg Val Cys Glu Cys Lys Glu Gly Arg Tyr  
 100 105 110

Leu Glu Ile Glu Phe Cys Leu Lys His Arg Ser Cys Pro Pro Gly Phe  
 115 120 125

Gly Val Val Gln Ala Gly Thr Pro Glu Arg Asn Thr Val Cys Lys Arg  
 130 135 140

Cys Pro Asp Gly Phe Phe Ser Asn Glu Thr Ser Ser Lys Ala Pro Cys  
 145 150 155 160

Arg Lys His Thr Asn Cys Ser Val Phe Gly Leu Leu Leu Thr Gln Lys  
 165 170 175

Gly Asn Ala Thr His Asp Asn Ile Cys Ser Gly Asn Ser Glu Ser Thr  
 180 185 190

Gln Lys Cys Gly Ile Asp Val Thr Leu Cys Glu Glu Ala Phe Phe Arg  
 195 200 205

Phe Ala Val Pro Thr Lys Phe Thr Pro Asn Trp Leu Ser Val Leu Val  
 210 215 220

Asp Asn Leu Pro Gly Thr Lys Val Asn Ala Glu Ser Val Glu Arg Ile  
 225 230 235 240

Lys Arg Gln His Ser Ser Gln Glu Gln Thr Phe Gln Leu Leu Lys Leu  
245 250 255

Trp Lys His Gln Asn Lys Asp Gln Asp Ile Val Lys Lys Ile Ile Gln  
260 265 270

Asp Ile Asp Leu Ser Glu Asn Ser Val Gln Arg His Ile Gly His Ala  
275 280 285

Asn Leu Thr Phe Glu Gln Leu Arg Ser Leu Met Glu Ser Leu Pro Gly  
290 295 300

Lys Lys Val Gly Ala Glu Asp Ile Glu Lys Thr Ile Lys Ala Cys Lys  
305 310 315 320

Pro Ser Asp Gln Ile Leu Lys Leu Leu Ser Leu Trp Arg Ile Lys Asn  
325 330 335

Gly Asp Gln Asp Thr Leu Lys Gly Leu Met His Ala Leu Lys His Ser  
340 345 350

Lys Thr Tyr His Phe Pro Lys Thr Val Thr Gln Ser Leu Lys Lys Thr  
355 360 365

Ile Arg Phe Leu His Ser Phe Thr Met Tyr Lys Leu Tyr Gln Lys Leu  
370 375 380

Phe Leu Glu Met Ile Gly Asn Gln Val Gln Ser Val Lys Ile Ser Cys  
385 390 395 400

Leu

<210> 65  
<211> 401  
<212> PRT  
<213> Homo sapiens

<400> 65

Met Asn Asn Leu Leu Cys Cys Ala Leu Val Phe Leu Asp Ile Ser Ile  
1 5 10 15

Lys Trp Thr Thr Gln Glu Thr Phe Pro Pro Lys Tyr Leu His Tyr Asp  
20 25 30

Glu Glu Thr Ser His Gln Leu Leu Cys Asp Lys Cys Pro Pro Gly Thr  
 35 40 45

Tyr Leu Lys Gln His Cys Thr Ala Lys Trp Lys Thr Val Cys Ala Pro  
 50 55 60

Cys Pro Asp His Tyr Tyr Thr Asp Ser Trp His Thr Ser Asp Glu Cys  
 65 70 75 80

Leu Tyr Cys Ser Pro Val Cys Lys Glu Leu Gln Tyr Val Lys Gln Glu  
 85 90 95

Cys Asn Arg Thr His Asn Arg Val Cys Glu Cys Lys Glu Gly Arg Tyr  
 100 105 110

Leu Glu Ile Glu Phe Cys Leu Lys His Arg Ser Cys Pro Pro Gly Phe  
 115 120 125

Gly Val Val Gln Ala Gly Thr Pro Glu Arg Asn Thr Val Cys Lys Arg  
 130 135 140

Cys Pro Asp Gly Phe Phe Ser Asn Glu Thr Ser Ser Lys Ala Pro Cys  
 145 150 155 160

Arg Lys His Thr Asn Cys Ser Val Phe Gly Leu Leu Leu Thr Gln Lys  
 165 170 175

Gly Asn Ala Thr His Asp Asn Ile Cys Ser Gly Asn Ser Glu Ser Thr  
 180 185 190

Gln Lys Cys Gly Ile Asp Val Thr Leu Cys Glu Glu Ala Phe Phe Arg  
 195 200 205

Phe Ala Val Pro Thr Lys Phe Thr Pro Asn Trp Leu Ser Val Leu Val  
 210 215 220

Asp Asn Leu Pro Gly Thr Lys Val Asn Ala Glu Ser Val Glu Arg Ile  
 225 230 235 240

Lys Arg Gln His Ser Ser Gln Glu Gln Thr Phe Gln Leu Leu Lys Leu  
 245 250 255

Trp Lys His Gln Asn Lys Asp Gln Asp Ile Val Lys Lys Ile Ile Gln  
 260 265 270

Asp Ile Asp Leu Cys Glu Asn Ser Val Gln Arg His Ile Gly His Ala  
 275 280 285

Asn Leu Thr Phe Glu Gln Leu Arg Ser Leu Met Glu Ser Leu Pro Gly  
 290 295 300

Lys Lys Val Gly Ala Glu Asp Ile Glu Lys Thr Ile Lys Ala Ser Lys  
 305 310 315 320

Pro Ser Asp Gln Ile Leu Lys Leu Leu Ser Leu Trp Arg Ile Lys Asn  
 325 330 335

Gly Asp Gln Asp Thr Leu Lys Gly Leu Met His Ala Leu Lys His Ser  
 340 345 350

Lys Thr Tyr His Phe Pro Lys Thr Val Thr Gln Ser Leu Lys Lys Thr  
 355 360 365

Ile Arg Phe Leu His Ser Phe Thr Met Tyr Lys Leu Tyr Gln Lys Leu  
 370 375 380

Phe Leu Glu Met Ile Gly Asn Gln Val Gln Ser Val Lys Ile Ser Cys  
 385 390 395 400

Leu

<210> 66  
 <211> 401  
 <212> PRT  
 <213> Homo sapiens

<400> 66

Met Asn Asn Leu Leu Cys Cys Ala Leu Val Phe Leu Asp Ile Ser Ile  
 1 5 10 15

Lys Trp Thr Thr Gln Glu Thr Phe Pro Pro Lys Tyr Leu His Tyr Asp  
 20 25 30

Glu Glu Thr Ser His Gln Leu Leu Cys Asp Lys Cys Pro Pro Gly Thr



35	40	45
Tyr Leu Lys Gln His Cys Thr Ala Lys Trp Lys Thr Val Cys Ala Pro		
50	55	60
Cys Pro Asp His Tyr Tyr Thr Asp Ser Trp His Thr Ser Asp Glu Cys		
65	70	75
Leu Tyr Cys Ser Pro Val Cys Lys Glu Leu Gln Tyr Val Lys Gln Glu		
85	90	95
Cys Asn Arg Thr His Asn Arg Val Cys Glu Cys Lys Glu Gly Arg Tyr		
100	105	110
Leu Glu Ile Glu Phe Cys Leu Lys His Arg Ser Cys Pro Pro Gly Phe		
115	120	125
Gly Val Val Gln Ala Gly Thr Pro Glu Arg Asn Thr Val Cys Lys Arg		
130	135	140
Cys Pro Asp Gly Phe Phe Ser Asn Glu Thr Ser Ser Lys Ala Pro Cys		
145	150	155
Arg Lys His Thr Asn Cys Ser Val Phe Gly Leu Leu Leu Thr Gln Lys		
165	170	175
Gly Asn Ala Thr His Asp Asn Ile Cys Ser Gly Asn Ser Glu Ser Thr		
180	185	190
Gln Lys Cys Gly Ile Asp Val Thr Leu Cys Glu Glu Ala Phe Phe Arg		
195	200	205
Phe Ala Val Pro Thr Lys Phe Thr Pro Asn Trp Leu Ser Val Leu Val		
210	215	220
Asp Asn Leu Pro Gly Thr Lys Val Asn Ala Glu Ser Val Glu Arg Ile		
225	230	235
Lys Arg Gln His Ser Ser Gln Glu Gln Thr Phe Gln Leu Leu Lys Leu		
245	250	255
Trp Lys His Gln Asn Lys Asp Gln Asp Ile Val Lys Lys Ile Ile Gln		
260	265	270

Asp Ile Asp Leu Cys Glu Asn Ser Val Gln Arg His Ile Gly His Ala  
275 280 285

Asn Leu Thr Phe Glu Gln Leu Arg Ser Leu Met Glu Ser Leu Pro Gly  
290 295 300

Lys Lys Val Gly Ala Glu Asp Ile Glu Lys Thr Ile Lys Ala Cys Lys  
305 310 315 320

Pro Ser Asp Gln Ile Leu Lys Leu Leu Ser Leu Trp Arg Ile Lys Asn  
325 330 335

Gly Asp Gln Asp Thr Leu Lys Gly Leu Met His Ala Leu Lys His Ser  
340 345 350

Lys Thr Tyr His Phe Pro Lys Thr Val Thr Gln Ser Leu Lys Lys Thr  
355 360 365

Ile Arg Phe Leu His Ser Phe Thr Met Tyr Lys Leu Tyr Gln Lys Leu  
370 375 380

Phe Leu Glu Met Ile Gly Asn Gln Val Gln Ser Val Lys Ile Ser Ser  
385 390 395 400

Leu

<210> 67  
<211> 360  
<212> PRT  
<213> Homo sapiens

<400> 67

Met Asn Asn Leu Leu Cys Cys Ala Leu Val Phe Leu Asp Ile Ser Ile  
1 5 10 15

Lys Trp Thr Thr Gln Glu Pro Cys Pro Asp His Tyr Tyr Thr Asp Ser  
20 25 30

Trp His Thr Ser Asp Glu Cys Leu Tyr Cys Ser Pro Val Cys Lys Glu  
35 40 45

Leu Gln Tyr Val Lys Gln Glu Cys Asn Arg Thr His Asn Arg Val Cys  
50 55 60

Glu Cys Lys Glu Gly Arg Tyr Leu Glu Ile Glu Phe Cys Leu Lys His  
65 70 75 80

Arg Ser Cys Pro Pro Gly Phe Gly Val Val Gln Ala Gly Thr Pro Glu  
85 90 95

Arg Asn Thr Val Cys Lys Arg Cys Pro Asp Gly Phe Phe Ser Asn Glu  
100 105 110

Thr Ser Ser Lys Ala Pro Cys Arg Lys His Thr Asn Cys Ser Val Phe  
115 120 125

Gly Leu Leu Leu Thr Gln Lys Gly Asn Ala Thr His Asp Asn Ile Cys  
130 135 140

Ser Gly Asn Ser Glu Ser Thr Gln Lys Cys Gly Ile Asp Val Thr Leu  
145 150 155 160

Cys Glu Glu Ala Phe Phe Arg Phe Ala Val Pro Thr Lys Phe Thr Pro  
165 170 175

Asn Trp Leu Ser Val Leu Val Asp Asn Leu Pro Gly Thr Lys Val Asn  
180 185 190

Ala Glu Ser Val Glu Arg Ile Lys Arg Gln His Ser Ser Gln Glu Gln  
195 200 205

Thr Phe Gln Leu Leu Lys Leu Trp Lys His Gln Asn Lys Asp Gln Asp  
210 215 220

Ile Val Lys Lys Ile Ile Gln Asp Ile Asp Leu Cys Glu Asn Ser Val  
225 230 235 240

Gln Arg His Ile Gly His Ala Asn Leu Thr Phe Glu Gln Leu Arg Ser  
245 250 255

Leu Met Glu Ser Leu Pro Gly Lys Lys Val Gly Ala Glu Asp Ile Glu  
260 265 270

Lys Thr Ile Lys Ala Cys Lys Pro Ser Asp Gln Ile Leu Lys Leu Leu

275

280

285

Ser Leu Trp Arg Ile Lys Asn Gly Asp Gln Asp Thr Leu Lys Gly Leu  
 290 295 300

Met His Ala Leu Lys His Ser Lys Thr Tyr His Phe Pro Lys Thr Val  
 305 310 315 320

Thr Gln Ser Leu Lys Lys Thr Ile Arg Phe Leu His Ser Phe Thr Met  
 325 330 335

Tyr Lys Leu Tyr Gln Lys Leu Phe Leu Glu Met Ile Gly Asn Gln Val  
 340 345 350

Gln Ser Val Lys Ile Ser Cys Leu  
 355 360

<210> 68

<211> 359

<212> PRT

<213> Homo sapiens

<400> 68

Met Asn Asn Leu Leu Cys Cys Ala Leu Val Phe Leu Asp Ile Ser Ile  
 1 5 10 15

Lys Trp Thr Thr Gln Glu Thr Phe Pro Pro Lys Tyr Leu His Tyr Asp  
 20 25 30

Glu Glu Thr Ser His Gln Leu Leu Cys Asp Lys Cys Pro Pro Gly Thr  
 35 40 45

Tyr Leu Lys Gln His Cys Thr Ala Lys Trp Lys Thr Val Cys Ala Glu  
 50 55 60

Cys Lys Glu Gly Arg Tyr Leu Glu Ile Glu Phe Cys Leu Lys His Arg  
 65 70 75 80

Ser Cys Pro Pro Gly Phe Gly Val Val Gln Ala Gly Thr Pro Glu Arg  
 85 90 95

Asn Thr Val Cys Lys Arg Cys Pro Asp Gly Phe Phe Ser Asn Glu Thr  
 100 105 110

Ser Ser Lys Ala Pro Cys Arg Lys His Thr Asn Cys Ser Val Phe Gly  
 115 120 125

Leu Leu Leu Thr Gln Lys Gly Asn Ala Thr His Asp Asn Ile Cys Ser  
 130 135 140

Gly Asn Ser Glu Ser Thr Gln Lys Cys Gly Ile Asp Val Thr Leu Cys  
 145 150 155 160

Glu Glu Ala Phe Phe Arg Phe Ala Val Pro Thr Lys Phe Thr Pro Asn  
 165 170 175

Trp Leu Ser Val Leu Val Asp Asn Leu Pro Gly Thr Lys Val Asn Ala  
 180 185 190

Glu Ser Val Glu Arg Ile Lys Arg Gln His Ser Ser Gln Glu Gln Thr  
 195 200 205

Phe Gln Leu Leu Lys Leu Trp Lys His Gln Asn Lys Asp Gln Asp Ile  
 210 215 220

Val Lys Lys Ile Ile Gln Asp Ile Asp Leu Cys Glu Asn Ser Val Gln  
 225 230 235 240

Arg His Ile Gly His Ala Asn Leu Thr Phe Glu Gln Leu Arg Ser Leu  
 245 250 255

Met Glu Ser Leu Pro Gly Lys Lys Val Gly Ala Glu Asp Ile Glu Lys  
 260 265 270

Thr Ile Lys Ala Cys Lys Pro Ser Asp Gln Ile Leu Lys Leu Leu Ser  
 275 280 285

Leu Trp Arg Ile Lys Asn Gly Asp Gln Asp Thr Leu Lys Gly Leu Met  
 290 295 300

His Ala Leu Lys His Ser Lys Thr Tyr His Phe Pro Lys Thr Val Thr  
 305 310 315 320

Gln Ser Leu Lys Lys Thr Ile Arg Phe Leu His Ser Phe Thr Met Tyr  
 325 330 335

Lys Leu Tyr Gln Lys Leu Phe Leu Glu Met Ile Gly Asn Gln Val Gln  
 340 345 350

Ser Val Lys Ile Ser Cys Leu  
 355

<210> 69  
 <211> 363  
 <212> PRT  
 <213> Homo sapiens

<400> 69

Met Asn Asn Leu Leu Cys Cys Ala Leu Val Phe Leu Asp Ile Ser Ile  
 1 5 10 15

Lys Trp Thr Thr Gln Glu Thr Phe Pro Pro Lys Tyr Leu His Tyr Asp  
 20 25 30

Glu Glu Thr Ser His Gln Leu Leu Cys Asp Lys Cys Pro Pro Gly Thr  
 35 40 45

Tyr Leu Lys Gln His Cys Thr Ala Lys Trp Lys Thr Val Cys Ala Pro  
 50 55 60

Cys Pro Asp His Tyr Tyr Thr Asp Ser Trp His Thr Ser Asp Glu Cys  
 65 70 75 80

Leu Tyr Cys Ser Pro Val Cys Lys Glu Leu Gln Tyr Val Lys Gln Glu  
 85 90 95

Cys Asn Arg Thr His Asn Arg Val Cys Arg Cys Pro Asp Gly Phe Phe  
 100 105 110

Ser Asn Glu Thr Ser Ser Lys Ala Pro Cys Arg Lys His Thr Asn Cys  
 115 120 125

Ser Val Phe Gly Leu Leu Leu Thr Gln Lys Gly Asn Ala Thr His Asp  
 130 135 140

Asn Ile Cys Ser Gly Asn Ser Glu Ser Thr Gln Lys Cys Gly Ile Asp  
 145 150 155 160

Val Thr Leu Cys Glu Glu Ala Phe Phe Arg Phe Ala Val Pro Thr Lys  
 165 170 175

Phe Thr Pro Asn Trp Leu Ser Val Leu Val Asp Asn Leu Pro Gly Thr  
180 185 190

Lys Val Asn Ala Glu Ser Val Glu Arg Ile Lys Arg Gln His Ser Ser  
195 200 205

Gln Glu Gln Thr Phe Gln Leu Leu Lys Leu Trp Lys His Gln Asn Lys  
210 215 220

Asp Gln Asp Ile Val Lys Lys Ile Ile Gln Asp Ile Asp Leu Cys Glu  
225 230 235 240

Asn Ser Val Gln Arg His Ile Gly His Ala Asn Leu Thr Phe Glu Gln  
245 250 255

Leu Arg Ser Leu Met Glu Ser Leu Pro Gly Lys Lys Val Gly Ala Glu  
260 265 270

Asp Ile Glu Lys Thr Ile Lys Ala Cys Lys Pro Ser Asp Gln Ile Leu  
275 280 285

Lys Leu Leu Ser Leu Trp Arg Ile Lys Asn Gly Asp Gln Asp Thr Leu  
290 295 300

Lys Gly Leu Met His Ala Leu Lys His Ser Lys Thr Tyr His Phe Pro  
305 310 315 320

Lys Thr Val Thr Gln Ser Leu Lys Lys Thr Ile Arg Phe Leu His Ser  
325 330 335

Phe Thr Met Tyr Lys Leu Tyr Gln Lys Leu Phe Leu Glu Met Ile Gly  
340 345 350

Asn Gln Val Gln Ser Val Lys Ile Ser Cys Leu  
355 360

<210> 70  
<211> 359  
<212> PRT  
<213> Homo sapiens

<400> 70

Met Asn Asn Leu Leu Cys Cys Ala Leu Val Phe Leu Asp Ile Ser Ile  
 1 5 10 15  
 Lys Trp Thr Thr Gln Glu Thr Phe Pro Pro Lys Tyr Leu His Tyr Asp  
 20 25 30  
 Glu Glu Thr Ser His Gln Leu Leu Cys Asp Lys Cys Pro Pro Gly Thr  
 35 40 45  
 Tyr Leu Lys Gln His Cys Thr Ala Lys Trp Lys Thr Val Cys Ala Pro  
 50 55 60  
 Cys Pro Asp His Tyr Tyr Thr Asp Ser Trp His Thr Ser Asp Glu Cys  
 65 70 75 80  
 Leu Tyr Cys Ser Pro Val Cys Lys Glu Leu Gln Tyr Val Lys Gln Glu  
 85 90 95  
 Cys Asn Arg Thr His Asn Arg Val Cys Glu Cys Lys Glu Gly Arg Tyr  
 100 105 110  
 Leu Glu Ile Glu Phe Cys Leu Lys His Arg Ser Cys Pro Pro Gly Phe  
 115 120 125  
 Gly Val Val Gln Ala Gly Thr Pro Glu Arg Asn Thr Val Cys Lys Ser  
 130 135 140  
 Gly Asn Ser Glu Ser Thr Gln Lys Cys Gly Ile Asp Val Thr Leu Cys  
 145 150 155 160  
 Glu Glu Ala Phe Phe Arg Phe Ala Val Pro Thr Lys Phe Thr Pro Asn  
 165 170 175  
 Trp Leu Ser Val Leu Val Asp Asn Leu Pro Gly Thr Lys Val Asn Ala  
 180 185 190  
 Glu Ser Val Glu Arg Ile Lys Arg Gln His Ser Ser Gln Glu Gln Thr  
 195 200 205  
 Phe Gln Leu Leu Lys Leu Trp Lys His Gln Asn Lys Asp Gln Asp Ile  
 210 215 220  
 Val Lys Lys Ile Ile Gln Asp Ile Asp Leu Cys Glu Asn Ser Val Gln



225                      230                      235                      240  
 Arg His Ile Gly His Ala Asn Leu Thr Phe Glu Gln Leu Arg Ser Leu  
                                  245                      250                      255  
 Met Glu Ser Leu Pro Gly Lys Lys Val Gly Ala Glu Asp Ile Glu Lys  
                                  260                      265                      270  
 Thr Ile Lys Ala Cys Lys Pro Ser Asp Gln Ile Leu Lys Leu Leu Ser  
                                  275                      280                      285  
 Leu Trp Arg Ile Lys Asn Gly Asp Gln Asp Thr Leu Lys Gly Leu Met  
                                  290                      295                      300  
 His Ala Leu Lys His Ser Lys Thr Tyr His Phe Pro Lys Thr Val Thr  
 305                                   310                                   315                                   320  
 Gln Ser Leu Lys Lys Thr Ile Arg Phe Leu His Ser Phe Thr Met Tyr  
                                  325                                   330                                   335  
 Lys Leu Tyr Gln Lys Leu Phe Leu Glu Met Ile Gly Asn Gln Val Gln  
                                  340                                   345                                   350  
 Ser Val Lys Ile Ser Cys Leu  
                                  355  
  
 <210> 71  
 <211> 326  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 71  
  
 Met Asn Asn Leu Leu Cys Cys Ala Leu Val Phe Leu Asp Ile Ser Ile  
 1                      5                      10                      15  
  
 Lys Trp Thr Thr Gln Glu Thr Phe Pro Pro Lys Tyr Leu His Tyr Asp  
                                  20                                   25                                   30  
  
 Glu Glu Thr Ser His Gln Leu Leu Cys Asp Lys Cys Pro Pro Gly Thr  
                                  35                                   40                                   45  
  
 Tyr Leu Lys Gln His Cys Thr Ala Lys Trp Lys Thr Val Cys Ala Pro  
 50                                   55                                   60

Cys Pro Asp His Tyr Tyr Thr Asp Ser Trp His Thr Ser Asp Glu Cys  
65 70 75 80

Leu Tyr Cys Ser Pro Val Cys Lys Glu Leu Gln Tyr Val Lys Gln Glu  
85 90 95

Cys Asn Arg Thr His Asn Arg Val Cys Glu Cys Lys Glu Gly Arg Tyr  
100 105 110

Leu Glu Ile Glu Phe Cys Leu Lys His Arg Ser Cys Pro Pro Gly Phe  
115 120 125

Gly Val Val Gln Ala Gly Thr Pro Glu Arg Asn Thr Val Cys Lys Arg  
130 135 140

Cys Pro Asp Gly Phe Phe Ser Asn Glu Thr Ser Ser Lys Ala Pro Cys  
145 150 155 160

Arg Lys His Thr Asn Cys Ser Val Phe Gly Leu Leu Leu Thr Gln Lys  
165 170 175

Gly Asn Ala Thr His Asp Asn Ile Cys Ser Gly Asn Ser Glu Ser Thr  
180 185 190

Gln Lys Cys Gly Ile Asp Ile Asp Leu Cys Glu Asn Ser Val Gln Arg  
195 200 205

His Ile Gly His Ala Asn Leu Thr Phe Glu Gln Leu Arg Ser Leu Met  
210 215 220

Glu Ser Leu Pro Gly Lys Lys Val Gly Ala Glu Asp Ile Glu Lys Thr  
225 230 235 240

Ile Lys Ala Cys Lys Pro Ser Asp Gln Ile Leu Lys Leu Leu Ser Leu  
245 250 255

Trp Arg Ile Lys Asn Gly Asp Gln Asp Thr Leu Lys Gly Leu Met His  
260 265 270

Ala Leu Lys His Ser Lys Thr Tyr His Phe Pro Lys Thr Val Thr Gln  
275 280 285

Ser Leu Lys Lys Thr Ile Arg Phe Leu His Ser Phe Thr Met Tyr Lys  
 290 295 300

Leu Tyr Gln Lys Leu Phe Leu Glu Met Ile Gly Asn Gln Val Gln Ser  
 305 310 315 320

Val Lys Ile Ser Cys Leu  
 325

<210> 72  
 <211> 327  
 <212> PRT  
 <213> Homo sapiens

<400> 72

Met Asn Asn Leu Leu Cys Cys Ala Leu Val Phe Leu Asp Ile Ser Ile  
 1 5 10 15

Lys Trp Thr Thr Gln Glu Thr Phe Pro Pro Lys Tyr Leu His Tyr Asp  
 20 25 30

Glu Glu Thr Ser His Gln Leu Leu Cys Asp Lys Cys Pro Pro Gly Thr  
 35 40 45

Tyr Leu Lys Gln His Cys Thr Ala Lys Trp Lys Thr Val Cys Ala Pro  
 50 55 60

Cys Pro Asp His Tyr Tyr Thr Asp Ser Trp His Thr Ser Asp Glu Cys  
 65 70 75 80

Leu Tyr Cys Ser Pro Val Cys Lys Glu Leu Gln Tyr Val Lys Gln Glu  
 85 90 95

Cys Asn Arg Thr His Asn Arg Val Cys Glu Cys Lys Glu Gly Arg Tyr  
 100 105 110

Leu Glu Ile Glu Phe Cys Leu Lys His Arg Ser Cys Pro Pro Gly Phe  
 115 120 125

Gly Val Val Gln Ala Gly Thr Pro Glu Arg Asn Thr Val Cys Lys Arg  
 130 135 140

Cys Pro Asp Gly Phe Phe Ser Asn Glu Thr Ser Ser Lys Ala Pro Cys  
 145 150 155 160

Arg Lys His Thr Asn Cys Ser Val Phe Gly Leu Leu Leu Thr Gln Lys  
165 170 175

Gly Asn Ala Thr His Asp Asn Ile Cys Ser Gly Asn Ser Glu Ser Thr  
180 185 190

Gln Lys Cys Gly Ile Asp Val Thr Leu Cys Glu Glu Ala Phe Phe Arg  
195 200 205

Phe Ala Val Pro Thr Lys Phe Thr Pro Asn Trp Leu Ser Val Leu Val  
210 215 220

Asp Asn Leu Pro Gly Thr Lys Val Asn Ala Glu Ser Val Glu Arg Ile  
225 230 235 240

Lys Arg Gln His Ser Ser Gln Glu Gln Thr Phe Gln Leu Leu Lys Leu  
245 250 255

Trp Lys His Gln Asn Lys Asp Gln Asp Ile Val Lys Lys Ile Ile Gln  
260 265 270

Asp Ala Leu Lys His Ser Lys Thr Tyr His Phe Pro Lys Thr Val Thr  
275 280 285

Gln Ser Leu Lys Lys Thr Ile Arg Phe Leu His Ser Phe Thr Met Tyr  
290 295 300

Lys Leu Tyr Gln Lys Leu Phe Leu Glu Met Ile Gly Asn Gln Val Gln  
305 310 315 320

Ser Val Lys Ile Ser Cys Leu  
325

<210> 73  
<211> 399  
<212> PRT  
<213> Homo sapiens

<400> 73

Met Asn Asn Leu Leu Cys Cys Ala Leu Val Phe Leu Asp Ile Ser Ile  
1 5 10 15

Lys Trp Thr Thr Gln Glu Thr Phe Pro Pro Lys Tyr Leu His Tyr Asp  
 20 25 30

Glu Glu Thr Ser His Gln Leu Leu Cys Asp Lys Cys Pro Pro Gly Thr  
 35 40 45

Tyr Leu Lys Gln His Cys Thr Ala Lys Trp Lys Thr Val Cys Ala Pro  
 50 55 60

Cys Pro Asp His Tyr Tyr Thr Asp Ser Trp His Thr Ser Asp Glu Cys  
 65 70 75 80

Leu Tyr Cys Ser Pro Val Cys Lys Glu Leu Gln Tyr Val Lys Gln Glu  
 85 90 95

Cys Asn Arg Thr His Asn Arg Val Cys Glu Cys Lys Glu Gly Arg Tyr  
 100 105 110

Leu Glu Ile Glu Phe Cys Leu Lys His Arg Ser Cys Pro Pro Gly Phe  
 115 120 125

Gly Val Val Gln Ala Gly Thr Pro Glu Arg Asn Thr Val Cys Lys Arg  
 130 135 140

Cys Pro Asp Gly Phe Phe Ser Asn Glu Thr Ser Ser Lys Ala Pro Cys  
 145 150 155 160

Arg Lys His Thr Asn Cys Ser Val Phe Gly Leu Leu Leu Thr Gln Lys  
 165 170 175

Gly Asn Ala Thr His Asp Asn Ile Cys Ser Gly Asn Ser Glu Ser Thr  
 180 185 190

Gln Lys Cys Gly Ile Asp Val Thr Leu Cys Glu Glu Ala Phe Phe Arg  
 195 200 205

Phe Ala Val Pro Thr Lys Phe Thr Pro Asn Trp Leu Ser Val Leu Val  
 210 215 220

Asp Asn Leu Pro Gly Thr Lys Val Asn Ala Glu Ser Val Glu Arg Ile  
 225 230 235 240

Lys Arg Gln His Ser Ser Gln Glu Gln Thr Phe Gln Leu Leu Lys Leu

	245		250		255
Trp Lys His	Gln Asn Lys Asp Gln Asp	Ile Val Lys Lys	Ile Ile Gln		
	260	265	270		
Asp Ile Asp	Leu Cys Glu Asn Ser Val Gln Arg His	Ile Gly His Ala			
	275	280	285		
Asn Leu Thr	Phe Glu Gln Leu Arg Ser Leu Met	Glu Ser Leu Pro Gly			
	290	295	300		
Lys Lys Val	Gly Ala Glu Asp Ile Glu Lys Thr	Ile Lys Ala Cys Lys			
305	310	315	320		
Pro Ser Asp	Gln Ile Leu Lys Leu Leu Ser Leu Trp Arg	Ile Lys Asn			
	325	330	335		
Gly Asp Gln	Asp Thr Leu Lys Gly Leu Met His Ala Leu	Lys His Ser			
	340	345	350		
Lys Thr Tyr	His Phe Pro Lys Thr Val Thr Gln Ser	Leu Lys Lys Thr			
	355	360	365		
Ile Arg Phe	Leu His Ser Phe Thr Met Tyr Lys Leu Tyr	Gln Lys Leu			
	370	375	380		
Phe Leu Glu	Met Ile Gly Asn Gln Val Gln Ser Val Lys	Ile Ser			
385	390	395			
<210> 74					
<211> 351					
<212> PRT					
<213> Homo sapiens					
<400> 74					
Met Asn Asn	Leu Leu Cys Cys Ala Leu Val Phe Leu Asp	Ile Ser Ile			
1	5	10	15		
Lys Trp Thr	Thr Gln Glu Thr Phe Pro Pro Lys Tyr Leu	His Tyr Asp			
	20	25	30		
Glu Glu Thr	Ser His Gln Leu Leu Cys Asp Lys Cys	Pro Pro Gly Thr			
	35	40	45		

Tyr Leu Lys Gln His Cys Thr Ala Lys Trp Lys Thr Val Cys Ala Pro  
 50 55 60

Cys Pro Asp His Tyr Tyr Thr Asp Ser Trp His Thr Ser Asp Glu Cys  
 65 70 75 80

Leu Tyr Cys Ser Pro Val Cys Lys Glu Leu Gln Tyr Val Lys Gln Glu  
 85 90 95

Cys Asn Arg Thr His Asn Arg Val Cys Glu Cys Lys Glu Gly Arg Tyr  
 100 105 110

Leu Glu Ile Glu Phe Cys Leu Lys His Arg Ser Cys Pro Pro Gly Phe  
 115 120 125

Gly Val Val Gln Ala Gly Thr Pro Glu Arg Asn Thr Val Cys Lys Arg  
 130 135 140

Cys Pro Asp Gly Phe Phe Ser Asn Glu Thr Ser Ser Lys Ala Pro Cys  
 145 150 155 160

Arg Lys His Thr Asn Cys Ser Val Phe Gly Leu Leu Leu Thr Gln Lys  
 165 170 175

Gly Asn Ala Thr His Asp Asn Ile Cys Ser Gly Asn Ser Glu Ser Thr  
 180 185 190

Gln Lys Cys Gly Ile Asp Val Thr Leu Cys Glu Glu Ala Phe Phe Arg  
 195 200 205

Phe Ala Val Pro Thr Lys Phe Thr Pro Asn Trp Leu Ser Val Leu Val  
 210 215 220

Asp Asn Leu Pro Gly Thr Lys Val Asn Ala Glu Ser Val Glu Arg Ile  
 225 230 235 240

Lys Arg Gln His Ser Ser Gln Glu Gln Thr Phe Gln Leu Leu Lys Leu  
 245 250 255

Trp Lys His Gln Asn Lys Asp Gln Asp Ile Val Lys Lys Ile Ile Gln  
 260 265 270

Asp Ile Asp Leu Cys Glu Asn Ser Val Gln Arg His Ile Gly His Ala  
 275 280 285

Asn Leu Thr Phe Glu Gln Leu Arg Ser Leu Met Glu Ser Leu Pro Gly  
 290 295 300

Lys Lys Val Gly Ala Glu Asp Ile Glu Lys Thr Ile Lys Ala Cys Lys  
 305 310 315 320

Pro Ser Asp Gln Ile Leu Lys Leu Leu Ser Leu Trp Arg Ile Lys Asn  
 325 330 335

Gly Asp Gln Asp Thr Leu Lys Gly Leu Met His Ala Leu Lys His  
 340 345 350

<210> 75  
 <211> 272  
 <212> PRT  
 <213> Homo sapiens

<400> 75

Met Asn Asn Leu Leu Cys Cys Ala Leu Val Phe Leu Asp Ile Ser Ile  
 1 5 10 15

Lys Trp Thr Thr Gln Glu Thr Phe Pro Pro Lys Tyr Leu His Tyr Asp  
 20 25 30

Glu Glu Thr Ser His Gln Leu Leu Cys Asp Lys Cys Pro Pro Gly Thr  
 35 40 45

Tyr Leu Lys Gln His Cys Thr Ala Lys Trp Lys Thr Val Cys Ala Pro  
 50 55 60

Cys Pro Asp His Tyr Tyr Thr Asp Ser Trp His Thr Ser Asp Glu Cys  
 65 70 75 80

Leu Tyr Cys Ser Pro Val Cys Lys Glu Leu Gln Tyr Val Lys Gln Glu  
 85 90 95

Cys Asn Arg Thr His Asn Arg Val Cys Glu Cys Lys Glu Gly Arg Tyr  
 100 105 110

Leu Glu Ile Glu Phe Cys Leu Lys His Arg Ser Cys Pro Pro Gly Phe  
 115 120 125



Gly Val Val Gln Ala Gly Thr Pro Glu Arg Asn Thr Val Cys Lys Arg  
 130 135 140

Cys Pro Asp Gly Phe Phe Ser Asn Glu Thr Ser Ser Lys Ala Pro Cys  
 145 150 155 160

Arg Lys His Thr Asn Cys Ser Val Phe Gly Leu Leu Leu Thr Gln Lys  
 165 170 175

Gly Asn Ala Thr His Asp Asn Ile Cys Ser Gly Asn Ser Glu Ser Thr  
 180 185 190

Gln Lys Cys Gly Ile Asp Val Thr Leu Cys Glu Glu Ala Phe Phe Arg  
 195 200 205

Phe Ala Val Pro Thr Lys Phe Thr Pro Asn Trp Leu Ser Val Leu Val  
 210 215 220

Asp Asn Leu Pro Gly Thr Lys Val Asn Ala Glu Ser Val Glu Arg Ile  
 225 230 235 240

Lys Arg Gln His Ser Ser Gln Glu Gln Thr Phe Gln Leu Leu Lys Leu  
 245 250 255

Trp Lys His Gln Asn Lys Asp Gln Asp Ile Val Lys Lys Ile Ile Gln  
 260 265 270

<210> 76  
 <211> 197  
 <212> PRT  
 <213> Homo sapiens

<400> 76

Met Asn Asn Leu Leu Cys Cys Ala Leu Val Phe Leu Asp Ile Ser Ile  
 1 5 10 15

Lys Trp Thr Thr Gln Glu Thr Phe Pro Pro Lys Tyr Leu His Tyr Asp  
 20 25 30

Glu Glu Thr Ser His Gln Leu Leu Cys Asp Lys Cys Pro Pro Gly Thr  
 35 40 45

Tyr Leu Lys Gln His Cys Thr Ala Lys Trp Lys Thr Val Cys Ala Pro  
 50 55 60

Cys Pro Asp His Tyr Tyr Thr Asp Ser Trp His Thr Ser Asp Glu Cys  
 65 70 75 80

Leu Tyr Cys Ser Pro Val Cys Lys Glu Leu Gln Tyr Val Lys Gln Glu  
 85 90 95

Cys Asn Arg Thr His Asn Arg Val Cys Glu Cys Lys Glu Gly Arg Tyr  
 100 105 110

Leu Glu Ile Glu Phe Cys Leu Lys His Arg Ser Cys Pro Pro Gly Phe  
 115 120 125

Gly Val Val Gln Ala Gly Thr Pro Glu Arg Asn Thr Val Cys Lys Arg  
 130 135 140

Cys Pro Asp Gly Phe Phe Ser Asn Glu Thr Ser Ser Lys Ala Pro Cys  
 145 150 155 160

Arg Lys His Thr Asn Cys Ser Val Phe Gly Leu Leu Leu Thr Gln Lys  
 165 170 175

Gly Asn Ala Thr His Asp Asn Ile Cys Ser Gly Asn Ser Glu Ser Thr  
 180 185 190

Gln Lys Cys Gly Ile  
 195

<210> 77  
 <211> 143  
 <212> PRT  
 <213> Homo sapiens

<400> 77

Met Asn Asn Leu Leu Cys Cys Ala Leu Val Phe Leu Asp Ile Ser Ile  
 1 5 10 15

Lys Trp Thr Thr Gln Glu Thr Phe Pro Pro Lys Tyr Leu His Tyr Asp  
 20 25 30

Glu Glu Thr Ser His Gln Leu Leu Cys Asp Lys Cys Pro Pro Gly Thr  
 35 40 45

Tyr Leu Lys Gln His Cys Thr Ala Lys Trp Lys Thr Val Cys Ala Pro  
 50 55 60

Cys Pro Asp His Tyr Tyr Thr Asp Ser Trp His Thr Ser Asp Glu Cys  
 65 70 75 80

Leu Tyr Cys Ser Pro Val Cys Lys Glu Leu Gln Tyr Val Lys Gln Glu  
 85 90 95

Cys Asn Arg Thr His Asn Arg Val Cys Glu Cys Lys Glu Gly Arg Tyr  
 100 105 110

Leu Glu Ile Glu Phe Cys Leu Lys His Arg Ser Cys Pro Pro Gly Phe  
 115 120 125

Gly Val Val Gln Ala Gly Thr Pro Glu Arg Asn Thr Val Cys Lys  
 130 135 140

<210> 78  
 <211> 106  
 <212> PRT  
 <213> Homo sapiens

<400> 78

Met Asn Asn Leu Leu Cys Cys Ala Leu Val Phe Leu Asp Ile Ser Ile  
 1 5 10 15

Lys Trp Thr Thr Gln Glu Thr Phe Pro Pro Lys Tyr Leu His Tyr Asp  
 20 25 30

Glu Glu Thr Ser His Gln Leu Leu Cys Asp Lys Cys Pro Pro Gly Thr  
 35 40 45

Tyr Leu Lys Gln His Cys Thr Ala Lys Trp Lys Thr Val Cys Ala Pro  
 50 55 60

Cys Pro Asp His Tyr Tyr Thr Asp Ser Trp His Thr Ser Asp Glu Cys  
 65 70 75 80

Leu Tyr Cys Ser Pro Val Cys Lys Glu Leu Gln Tyr Val Lys Gln Glu  
 85 90 95

Cys Asn Arg Thr His Asn Arg Val Cys Glu  
 100 105

<210> 79  
 <211> 393  
 <212> PRT  
 <213> Homo sapiens

<400> 79

Met Asn Asn Leu Leu Cys Cys Ala Leu Val Phe Leu Asp Ile Ser Ile  
 1 5 10 15

Lys Trp Thr Thr Gln Glu Thr Phe Pro Pro Lys Tyr Leu His Tyr Asp  
 20 25 30

Glu Glu Thr Ser His Gln Leu Leu Cys Asp Lys Cys Pro Pro Gly Thr  
 35 40 45

Tyr Leu Lys Gln His Cys Thr Ala Lys Trp Lys Thr Val Cys Ala Pro  
 50 55 60

Cys Pro Asp His Tyr Tyr Thr Asp Ser Trp His Thr Ser Asp Glu Cys  
 65 70 75 80

Leu Tyr Cys Ser Pro Val Cys Lys Glu Leu Gln Tyr Val Lys Gln Glu  
 85 90 95

Cys Asn Arg Thr His Asn Arg Val Cys Glu Cys Lys Glu Gly Arg Tyr  
 100 105 110

Leu Glu Ile Glu Phe Cys Leu Lys His Arg Ser Cys Pro Pro Gly Phe  
 115 120 125

Gly Val Val Gln Ala Gly Thr Pro Glu Arg Asn Thr Val Cys Lys Arg  
 130 135 140

Cys Pro Asp Gly Phe Phe Ser Asn Glu Thr Ser Ser Lys Ala Pro Cys  
 145 150 155 160

Arg Lys His Thr Asn Cys Ser Val Phe Gly Leu Leu Leu Thr Gln Lys  
 165 170 175

Gly Asn Ala Thr His Asp Asn Ile Cys Ser Gly Asn Ser Glu Ser Thr  
 180 185 190

Gln Lys Cys Gly Ile Asp Val Thr Leu Cys Glu Glu Ala Phe Phe Arg  
 195 200 205

Phe Ala Val Pro Thr Lys Phe Thr Pro Asn Trp Leu Ser Val Leu Val  
 210 215 220

Asp Asn Leu Pro Gly Thr Lys Val Asn Ala Glu Ser Val Glu Arg Ile  
 225 230 235 240

Lys Arg Gln His Ser Ser Gln Glu Gln Thr Phe Gln Leu Leu Lys Leu  
 245 250 255

Trp Lys His Gln Asn Lys Asp Gln Asp Ile Val Lys Lys Ile Ile Gln  
 260 265 270

Asp Ile Asp Leu Cys Glu Asn Ser Val Gln Arg His Ile Gly His Ala  
 275 280 285

Asn Leu Thr Phe Glu Gln Leu Arg Ser Leu Met Glu Ser Leu Pro Gly  
 290 295 300

Lys Lys Val Gly Ala Glu Asp Ile Glu Lys Thr Ile Lys Ala Cys Lys  
 305 310 315 320

Pro Ser Asp Gln Ile Leu Lys Leu Leu Ser Leu Trp Arg Ile Lys Asn  
 325 330 335

Gly Asp Gln Asp Thr Leu Lys Gly Leu Met His Ala Leu Lys His Ser  
 340 345 350

Lys Thr Tyr His Phe Pro Lys Thr Val Thr Gln Ser Leu Lys Lys Thr  
 355 360 365

Ile Arg Phe Leu His Ser Phe Thr Met Tyr Lys Leu Tyr Gln Lys Leu  
 370 375 380

Phe Leu Glu Met Ile Gly Asn Leu Val  
 385 390

<210> 80  
 <211> 321  
 <212> PRT

<213> Homo sapiens

<400> 80

Met Asn Asn Leu Leu Cys Cys Ala Leu Val Phe Leu Asp Ile Ser Ile  
1 5 10 15

Lys Trp Thr Thr Gln Glu Thr Phe Pro Pro Lys Tyr Leu His Tyr Asp  
20 25 30

Glu Glu Thr Ser His Gln Leu Leu Cys Asp Lys Cys Pro Pro Gly Thr  
35 40 45

Tyr Leu Lys Gln His Cys Thr Ala Lys Trp Lys Thr Val Cys Ala Pro  
50 55 60

Cys Pro Asp His Tyr Tyr Thr Asp Ser Trp His Thr Ser Asp Glu Cys  
65 70 75 80

Leu Tyr Cys Ser Pro Val Cys Lys Glu Leu Gln Tyr Val Lys Gln Glu  
85 90 95

Cys Asn Arg Thr His Asn Arg Val Cys Glu Cys Lys Glu Gly Arg Tyr  
100 105 110

Leu Glu Ile Glu Phe Cys Leu Lys His Arg Ser Cys Pro Pro Gly Phe  
115 120 125

Gly Val Val Gln Ala Gly Thr Pro Glu Arg Asn Thr Val Cys Lys Arg  
130 135 140

Cys Pro Asp Gly Phe Phe Ser Asn Glu Thr Ser Ser Lys Ala Pro Cys  
145 150 155 160

Arg Lys His Thr Asn Cys Ser Val Phe Gly Leu Leu Leu Thr Gln Lys  
165 170 175

Gly Asn Ala Thr His Asp Asn Ile Cys Ser Gly Asn Ser Glu Ser Thr  
180 185 190

Gln Lys Cys Gly Ile Asp Val Thr Leu Cys Glu Glu Ala Phe Phe Arg  
195 200 205

Phe Ala Val Pro Thr Lys Phe Thr Pro Asn Trp Leu Ser Val Leu Val

210

215

220

Asp Asn Leu Pro Gly Thr Lys Val Asn Ala Glu Ser Val Glu Arg Ile  
 225 230 235 240

Lys Arg Gln His Ser Ser Gln Glu Gln Thr Phe Gln Leu Leu Lys Leu  
 245 250 255

Trp Lys His Gln Asn Lys Asp Gln Asp Ile Val Lys Lys Ile Ile Gln  
 260 265 270

Asp Ile Asp Leu Cys Glu Asn Ser Val Gln Arg His Ile Gly His Ala  
 275 280 285

Asn Leu Thr Phe Glu Gln Leu Arg Ser Leu Met Glu Ser Leu Pro Gly  
 290 295 300

Lys Lys Val Gly Ala Glu Asp Ile Glu Lys Thr Ile Lys Ala Ser Leu  
 305 310 315 320

Asp

<210> 81  
 <211> 187  
 <212> PRT  
 <213> Homo sapiens

<400> 81

Met Asn Asn Leu Leu Cys Cys Ala Leu Val Phe Leu Asp Ile Ser Ile  
 1 5 10 15

Lys Trp Thr Thr Gln Glu Thr Phe Pro Pro Lys Tyr Leu His Tyr Asp  
 20 25 30

Glu Glu Thr Ser His Gln Leu Leu Cys Asp Lys Cys Pro Pro Gly Thr  
 35 40 45

Tyr Leu Lys Gln His Cys Thr Ala Lys Trp Lys Thr Val Cys Ala Pro  
 50 55 60

Cys Pro Asp His Tyr Tyr Thr Asp Ser Trp His Thr Ser Asp Glu Cys  
 65 70 75 80

Leu Tyr Cys Ser Pro Val Cys Lys Glu Leu Gln Tyr Val Lys Gln Glu  
85 90 95

Cys Asn Arg Thr His Asn Arg Val Cys Glu Cys Lys Glu Gly Arg Tyr  
100 105 110

Leu Glu Ile Glu Phe Cys Leu Lys His Arg Ser Cys Pro Pro Gly Phe  
115 120 125

Gly Val Val Gln Ala Gly Thr Pro Glu Arg Asn Thr Val Cys Lys Arg  
130 135 140

Cys Pro Asp Gly Phe Phe Ser Asn Glu Thr Ser Ser Lys Ala Pro Cys  
145 150 155 160

Arg Lys His Thr Asn Cys Ser Val Phe Gly Leu Leu Leu Thr Gln Lys  
165 170 175

Gly Asn Ala Thr His Asp Asn Ile Cys Ser Gly  
180 185

<210> 82  
<211> 84  
<212> PRT  
<213> Homo sapiens

<400> 82

Met Asn Asn Leu Leu Cys Cys Ala Leu Val Phe Leu Asp Ile Ser Ile  
1 5 10 15

Lys Trp Thr Thr Gln Glu Thr Phe Pro Pro Lys Tyr Leu His Tyr Asp  
20 25 30

Glu Glu Thr Ser His Gln Leu Leu Cys Asp Lys Cys Pro Pro Gly Thr  
35 40 45

Tyr Leu Lys Gln His Cys Thr Ala Lys Trp Lys Thr Val Cys Ala Pro  
50 55 60

Cys Pro Asp His Tyr Tyr Thr Asp Ser Trp His Thr Ser Asp Glu Cys  
65 70 75 80

Leu Tyr Leu Val



<210> 83  
 <211> 1206  
 <212> DNA  
 <213> Homo sapiens

<400> 83  
 atgaacaact tgctgtgctg cgcgctcgtg tttctggaca tctccattaa gtggaccacc 60  
 caggaaacgt ttccctccaaa gtaccttcat tatgacgaag aaacctctca tcagctgttg 120  
 tgtgacaaat gtccctcctgg tacctaccta aaacaacact gtacagcaaa gtggaagacc 180  
 gtgtgcgccc cttgccctga ccactactac acagacagct ggcacaccag tgacgagtgt 240  
 ctatactgca gccccgtgtg caaggagctg cagtacgtca agcaggagtg caatcgcacc 300  
 cacaaccgcg tgtgcgaatg caaggaaggg cgctaccttg agatagagtt ctgcttgaaa 360  
 cataggagct gccctcctgg atttgagtg gtgcaagctg gaaccccaga gcgaaatata 420  
 gtttgcaaaa gatgtccaga tgggttcttc tcaaatagaga cgtcatctaa agcacctgt 480  
 agaaaacaca caaattgcag tgtcttttgt ctcttgctaa ctcagaaagg aaatgcaaca 540  
 cagcacaaca tatgttccgg aaacagtga tcaactcaaa aaagtggaat agatgttacc 600  
 ctgtgtgagg aggcattott caggtttgct gttcctacaa agtttacgcc taactggctt 660  
 agtgtcttgg tagacaatth gccctggcacc aaagtaaacy cagagagtgt agagaggata 720  
 aaacggcaac acagctcaca agaacagact ttccagctgc tgaagttatg gaaacatcaa 780  
 aacaaagacc aagatatagt caagaagatc atccaagata ttgacctctg tgaaaacagc 840  
 gtgcagcggc acattggaca tgctaacctc accttcgagc agcttcgtag cttgatggaa 900  
 agcttaccgg gaaagaaaagt gggagcagaa gacattgaaa aaacaataaa ggcatgcaaa 960  
 cccagtgacc agatcctgaa gctgctcagt ttgtggcgaa taaaaaatgg cgaccaagac 1020  
 accttgaagg gcctaatagca cgcactaaag cactcaaaga cgtaccactt tcccaaaact 1080  
 gtcactcaga gtctaaagaa gaccatcagg ttccttcaca gcttcacaat gtacaaattg 1140  
 tatcagaagt tatttttaga aatgataggt aaccaggtcc aatcagtaaa aataagctgc 1200  
 ttataa 1206

<210> 84  
 <211> 1206  
 <212> DNA  
 <213> Homo sapiens

<400> 84  
atgaacaact tgctgtgctg cgcgctcgtg tttctggaca tctccattaa gtggaccacc 60  
caggaaacgt ttcctccaaa gtaccttcat tatgacgaag aaacctctca tcagctgttg 120  
tgtgacaaat gtcctcctgg tacctaccta aaacaacact gtacagcaaa gtggaagacc 180  
gtgtgcgccc cttgccctga ccactactac acagacagct ggcacaccag tgacgagtgt 240  
ctatactgca gccccgtgtg caaggagctg cagtacgtca agcaggagtgt caatcgcacc 300  
cacaaccgcg tgtgcgaatg caaggaaggg cgctaccttg agatagagtt ctgcttgaaa 360  
cataggagct gccctcctgg atttgagtg gtgcaagctg gaaccccaga gcgaaatata 420  
gtttgcaaaa gatgtccaga tgggttcttc tcaaatagaga cgtcatctaa agcacctgt 480  
agaaaacaca caaattgcag tgtcttttgt ctcctgctaa ctacagaaagg aatgcaaca 540  
cacgacaaca tatgttccgg aaacagtga tcaactcaaa aatgtggaat agatgttacc 600  
ctgagtgagg aggcattctt caggtttgtt gttcctacaa agtttacgcc taactggctt 660  
agtgtcttg tagacaattt gcctggcacc aaagtaaacy cagagagtgt agagaggata 720  
aaacggcaac acagctcaca agaacagact ttccagctgc tgaagttatg gaaacatcaa 780  
aacaagacc aagatatagt caagaagatc atccaagata ttgacctctg tgaaaacagc 840  
gtgcagcggc acattggaca tgctaacctc accttcgagc agcttcgtag cttgatggaa 900  
agcttaccgg gaaagaaagt gggagcagaa gacattgaaa aaacaataaa ggcatgcaaa 960  
cccagtgacc agatcctgaa gctgctcagt ttgtggcgaa taaaaaatgg cgaccaagac 1020  
acctgaagg gcctaatagca cgcactaaag cactcaaaga cgtaccactt tcccaaaact 1080  
gtcactcaga gtctaaagaa gaccatcagg ttccttcaca gcttcacaat gtacaaattg 1140  
tatcagaagt tatttttaga aatgataggt aaccaggtcc aatcagtaaa aataagctgc 1200  
ttataa 1206

<210> 85  
<211> 1206  
<212> DNA  
<213> Homo sapiens

<400> 85  
atgaacaact tgctgtgctg cgcgctcgtg tttctggaca tctccattaa gtggaccacc 60  
caggaaacgt ttcctccaaa gtaccttcat tatgacgaag aaacctctca tcagctgttg 120  
tgtgacaaat gtcctcctgg tacctaccta aaacaacact gtacagcaaa gtggaagacc 180  
gtgtgcgccc cttgccctga ccactactac acagacagct ggcacaccag tgacgagtgt 240

ctatactgca gccccgtgtg caaggagctg cagtacgtca agcaggagtgt caatcgcacc	300
cacaaccgcg tgtgcgaatg caaggaaggg cgctaccttg agatagagtt ctgcttgaaa	360
cataggagct gccctcctgg atttggagtgt gtgcaagctg gaaccccaga gcgaaataca	420
gtttgcaaaa gatgtccaga tgggttcttc tcaaatagaga cgtcatctaa agcacctgt	480
agaaaacaca caaattgcag tgtcttttgt ctcttgctaa ctcagaaagg aaatgcaaca	540
cacgacaaca tatgttccgg aaacagtga tcaactcaaa aatgtggaat agatgttacc	600
ctgtgtgagg aggcattctt caggtttgct gttcctacaa agtttacgcc taactggctt	660
agtgtcttgg tagacaattt gcctggcacc aaagtaaacy cagagagtgt agagaggata	720
aaacggcaac acagctcaca agaacagact ttccagctgc tgaagttatg gaaacatcaa	780
aacaaagacc aagatatagt caagaagatc atccaagata ttgacctcag tgaaaacagc	840
gtgcagcggc acattggaca tgctaacctc accttcgagc agcttcgtag cttgatggaa	900
agcttaccgg gaaagaaagt gggagcagaa gacattgaaa aaacaataaa ggcatgcaaa	960
cccagtgacc agatcctgaa gctgctcagt ttgtggcgaa taaaaaatgg cgaccaagac	1020
accttgaagg gcctaatagca cgcactaaag cactcaaaga cgtaccactt tcccaaaact	1080
gtcactcaga gtctaaagaa gaccatcagg ttcttcaca gcttcacaat gtacaaattg	1140
tatcagaagt tatttttaga aatgataggt aaccagggtc aatcagtaaa aataagctgc	1200
ttataa	1206

<210> 86  
 <211> 1206  
 <212> DNA  
 <213> Homo sapiens

<400> 86	
atgaacaact tgctgtgctg cgcgctcgtg tttctggaca tctccattaa gtggaccacc	60
caggaaacgt ttcttccaaa gtaccttcat tatgacgaag aaacctctca tcagctgttg	120
tgtgacaaat gtctccttgg tacttaccta aaacaacact gtacagcaaa gtggaagacc	180
gtgtgcgccc cttgccctga ccactactac acagacagct ggcacaccag tgacgagtgt	240
ctatactgca gccccgtgtg caaggagctg cagtacgtca agcaggagtgt caatcgcacc	300
cacaaccgcg tgtgcgaatg caaggaaggg cgctaccttg agatagagtt ctgcttgaaa	360
cataggagct gccctcctgg atttggagtgt gtgcaagctg gaaccccaga gcgaaataca	420
gtttgcaaaa gatgtccaga tgggttcttc tcaaatagaga cgtcatctaa agcacctgt	480

agaaaacaca caaattgcag tgtcttttggc ctcctgctaa ctcagaaagg aaatgcaaca	540
cacgacaaca tatgttccgg aaacagtga tcaactcaaa aatgtggaat agatgttacc	600
ctgtgtgagg aggcattctt caggtttgct gttcctacaa agtttacgcc taactggctt	660
agtgtcttgg tagacaatth gcctggcacc aaagtaaacy cagagagtgt agagaggata	720
aaacggcaac acagctcaca agaacagact ttccagctgc tgaagtatat gaaacatcaa	780
aacaaagacc aagatatagt caagaagatc atccaagata ttgacctctg tgaaaacagc	840
gtgcagcggc acattggaca tgctaacctc accttcgagc agcttcgtag cttgatggaa	900
agcttaccgg gaaagaaagt gggagcagaa gacattgaaa aaacaataaa ggcaagcaaa	960
cccagtgacc agatcctgaa gctgctcagt ttgtggcgaa taaaaaatgg cgaccaagac	1020
accttgaagg gcctaattgca cgcactaaag cactcaaaga cgtaccactt tcccaaaact	1080
gtcactcaga gtctaaagaa gaccatcagg ttccttcaca gcttcacaat gtacaaattg	1140
tatcagaagt tttttttaga aatgataggt aaccagggtc aatcagtaaa aataagctgc	1200
ttataa	1206

<210> 87  
 <211> 1206  
 <212> DNA  
 <213> Homo sapiens

<400> 87	
atgaacaact tgctgtgctg cgcgctcgtg tttctggaca tctccattaa gtggaccacc	60
caggaaacgt ttcctccaaa gtaccttcat tatgacgaag aaacctctca tcagctgttg	120
tgtgacaaat gtctccttgg tacctaccta aaacaacact gtacagcaaa gtggaagacc	180
gtgtgcgccc cttgccctga ccactactac acagacagct ggcacaccag tgacgagtgt	240
ctatactgca gccccgtgtg caaggagctg cagtacgtca agcaggagtgt caatcgcacc	300
cacaaccgcy tgtgcgaatg caaggaaggc cgctaccttg agatagagtt ctgcttgaaa	360
cataggagct gccctccttg atttggagtg gtgcaagctg gaaccccaga gcgaaatata	420
gtttgcaaaa gatgtccaga tgggttcttc tcaaatgaga cgtcatctaa agcaccctgt	480
agaaaacaca caaattgcag tgtcttttggc ctcctgctaa ctcagaaagg aaatgcaaca	540
cacgacaaca tatgttccgg aaacagtga tcaactcaaa aatgtggaat agatgttacc	600
ctgtgtgagg aggcattctt caggtttgct gttcctacaa agtttacgcc taactggctt	660
agtgtcttgg tagacaatth gcctggcacc aaagtaaacy cagagagtgt agagaggata	720

aaacggcaac acagctcaca agaacagact ttccagctgc tgaagttatg gaaacatcaa	780
aacaaagacc aagatatagt caagaagatc atccaagata ttgacctctg tgaaaacagc	840
gtgcagcggc acattggaca tgctaacctc accttcgagc agcttcgtag cttgatggaa	900
agcttaccgg gaaagaaagt gggagcagaa gacattgaaa aaacaataaa ggcatgcaaa	960
cccagtgacc agatcctgaa gctgctcagt ttgtggcgaa taaaaaatgg cgaccaagac	1020
accttgaagg gcctaatagca cgcactaaag cactcaaaga cgtaccactt tcccaaaact	1080
gtcactcaga gtctaaagaa gaccatcagg ttccttcaca gcttcacaat gtacaaattg	1140
tatcagaagt tattttttaga aatgataggt aaccagggtcc aatcagtaaa aataagcagc	1200
ttataa	1206

<210> 88  
 <211> 1083  
 <212> DNA  
 <213> Homo sapiens

<400> 88	
atgaacaact tgctgtgctg cgcgctcgtg tttctggaca tctccattaa gtggaccacc	60
caggaacctt gccctgacca ctactacaca gacagctggc acaccagtga cgagtgtcta	120
tactgcagcc ccgtgtgcaa ggagctgcag tacgtcaagc aggagtgcaa tcgcacccac	180
aaccgcgtgt gcgaatgcaa ggaagggcgc taccttgaga tagagttctg cttgaaacat	240
aggagctgcc ctcttgatt tggagtgggt caagctggaa cccagagcg aaatacagtt	300
tgcaaaagat gtccagatgg gttctttctca aatgagacgt catctaaagc accctgtaga	360
aaacacacaa attgcagtgt ctttgggtctc ctgctaactc agaaaggaaa tgcaacacac	420
gacaacatat gttccggaaa cagtgaatca actcaaaaat gtggaataga tgttaccctg	480
tgtgaggagg cattcttcag gtttgctggt cctacaaagt ttacgcctaa ctggcttagt	540
gtcttggtag acaatttgcc tggcaccaaa gtaaacgcag agagtgtaga gaggataaaa	600
cggcaacaca gtcacaaga acagactttc cagctgctga agttatggaa acatcaaaac	660
aaagaccaag atatagtcaa gaagatcatc caagatattg acctctgtga aaacagcgtg	720
cagcggcaca ttggacatgc taacctcacc ttcgagcagc ttcgtagctt gatggaaagc	780
ttaccgggaa agaaagtggg agcagaagac attgaaaaaa caataaaggc atgcaaacc	840
agtgaccaga tcctgaagct gctcagtttg tggcgaataa aaaatggcga ccaagacacc	900
ttgaagggcc taatgcacgc actaaagcac tcaaagacgt accactttcc caaaactgtc	960

actcagagtc taaagaagac catcaggttc cttcacagct tcacaatgta caaattgtat	1020
cagaagttat ttttagaaat gataggtaac cagggtccaat cagtaaaaat aagctgctta	1080
taa	1083

<210> 89  
 <211> 1080  
 <212> DNA  
 <213> Homo sapiens

<400> 89	
atgaacaact tgctgtgctg cgcgctcgtg tttctggaca tctccattaa gtggaccacc	60
caggaaacgt ttcctccaaa gtaccttcat tatgacgaag aaacctctca tcagctgttg	120
tgtgacaaat gtcctcctgg tacctaccta aaacaacact gtacagcaaa gtggaagacc	180
gtgtgcgccg aatgcaagga agggcgctac cttgagatag agttctgctt gaaacatagg	240
agctgccctc ctggatttgg agtggtgcaa gctggaaccc cagagcgaaa tacagtttgc	300
aaaagatgtc cagatggggtt cttctcaaat gagacgtcat ctaaagcacc ctgtagaaaa	360
cacacaaatt gcagtgtctt tgggtctcctg ctaactcaga aaggaaatgc aacacacgac	420
aacatatgtt ccggaacag tgaatcaact caaaaatgtg gaatagatgt taccctgtgt	480
gaggaggcat tcttcagggt tgctgttcct acaaagttta cgctaactg gcttagtgtc	540
ttggtagaca atttgcttg caccaaagta aacgcagaga gtgtagagag gataaacgg	600
caacacagct cacaagaaca gactttccag ctgctgaagt tatggaaaca tcaaaacaaa	660
gaccaagata tagtcaagaa gatcatccaa gatattgacc tctgtgaaaa cagcgtgcag	720
cggcacattg gacatgctaa cctcaccttc gagcagcttc gtagcttgat ggaaagctta	780
ccgggaaaga aagtgggagc agaagacatt gaaaaaaca taaaggcatg caaacccagt	840
gaccagatcc tgaagctgct cagtttgtgg cgaataaaaa atggcgacca agacaccttg	900
aagggcctaa tgcacgcact aaagcactca aagacgtacc actttcccaa aactgtcact	960
cagagtctaa agaagaccat caggttcctt cacagcttca caatgtacaa attgtatcag	1020
aagttatttt tagaaatgat aggtaaccag gtccaatcag taaaaataag ctgcttataa	1080

<210> 90  
 <211> 1092  
 <212> DNA  
 <213> Homo sapiens

<400> 90

atgaacaact tgctgtgctg cgcgctcgtg tttctggaca tctccattaa gtggaccacc	60
caggaaacgt ttcttccaaa gtaccttcat tatgacgaag aaacctctca tcagctgttg	120
tgtgacaaat gtcctcctgg tacctaccta aaacaacact gtacagcaaa gtggaagacc	180
gtgtgcgccc cttgccctga ccactactac acagacagct ggcacaccag tgacgagtgt	240
ctatactgca gccccgtgtg caaggagctg cagtacgtca agcaggagtgt caatcgcacc	300
cacaaccgcg tgtgcagatg tccagatggg ttcttctcaa atgagacgtc atctaaagca	360
ccctgtagaa aacacacaaa ttgcagtgtc tttggtctcc tgctaactca gaaaggaaat	420
gcaacacacg acaacatatg ttccggaaac agtgaatcaa ctcaaaaatg tggaatagat	480
gttaccctgt gtgaggaggc attcttcagg tttgctgttc ctacaaagtt tacgcctaac	540
tggcttagtg tcttggtaga caatttgcct ggcaccaaag taaacgcaga gagtgtagag	600
aggataaaac ggcaacacag ctcaacaaga cagactttcc agctgctgaa gttatggaaa	660
catcaaaaaca aagaccaaga tatagtcaag aagatcatcc aagatattga cctctgtgaa	720
aacagcgtgc agcggcacat tggacatgct aacctcacct tcgagcagct tcgtagcttg	780
atggaaagct taccgggaaa gaaagtggga gcagaagaca ttgaaaaaac aataaaggca	840
tgcaaaccca gtgaccagat cctgaagctg ctcaagttgt ggcgaataaa aaatggcgac	900
caagacacct tgaagggcct aatgcacgca ctaaagcact caaagacgta ccactttccc	960
aaaactgtca ctcaagagtct aaagaagacc atcaggttcc ttcacagctt cacaatgtac	1020
aaattgtatc agaagttatt tttagaaatg ataggtaacc aggtccaatc agtaaaaata	1080
agctgcttat aa	1092

<210> 91  
 <211> 1080  
 <212> DNA  
 <213> Homo sapiens

<400> 91	
atgaacaact tgctgtgctg cgcgctcgtg tttctggaca tctccattaa gtggaccacc	60
caggaaacgt ttcttccaaa gtaccttcat tatgacgaag aaacctctca tcagctgttg	120
tgtgacaaat gtcctcctgg tacctaccta aaacaacact gtacagcaaa gtggaagacc	180
gtgtgcgccc cttgccctga ccactactac acagacagct ggcacaccag tgacgagtgt	240
ctatactgca gccccgtgtg caaggagctg cagtacgtca agcaggagtgt caatcgcacc	300
cacaaccgcg tgtgcgaatg caaggaaggg cgctaccttg agatagagtt ctgcttgaaa	360

cataggagct gccctcctgg atttggagtg gtgcaagctg gaaccccaga gcgaaataca	420
gtttgcaaat ccggaaacag tgaatcaact caaaaatgtg gaatagatgt taccctgtgt	480
gaggaggcat tcttcagggtt tgctgttcct acaaagttta cgcctaactg gcttagtgtc	540
ttggtagaca atttgcctgg caccaaagta aacgcagaga gtgtagagag gataaacgg	600
caacacagct cacaagaaca gactttccag ctgctgaagt tatggaaaca tcaaaacaaa	660
gaccaagata tagtcaagaa gatcatccaa gatattgacc tctgtgaaaa cagcgtgcag	720
cggcacattg gacatgctaa cctcaccttc gagcagcttc gtagcttgat ggaaagctta	780
ccgggaaaga aagtgggagc agaagacatt gaaaaaaca taaaggcatg caaacccagt	840
gaccagatcc tgaagctgct cagtttgtgg cgaataaaaa atggcgacca agacaccttg	900
aagggcctaa tgcacgcact aaagcactca aagacgtacc actttcccaa aactgtcact	960
cagagtctaa agaagaccat caggttcctt cacagcttca caatgtacaa attgtatcag	1020
aagttatttt tagaaatgat aggttaaccag gtccaatcag taaaaataag ctgcttataa	1080

<210> 92  
 <211> 981  
 <212> DNA  
 <213> Homo sapiens

<400> 92	
atgaacaact tgctgtgctg cgcgctcgtg tttctggaca tctccattaa gtggaccacc	60
caggaaacgt ttctccaaa gtaccttcat tatgacgaag aaacctctca tcagctgttg	120
tgtgacaaat gtcctcctgg tacctaccta aaacaacact gtacagcaaa gtggaagacc	180
gtgtgcgccc cttgccctga ccactactac acagacagct ggcacaccag tgacgagtgt	240
ctatactgca gcccctgtg caaggagctg cagtacgtca agcaggagtg caatcgacc	300
cacaaccgcg tgtgcgaatg caaggaaggc cgctaccttg agatagagtt ctgcttgaaa	360
cataggagct gccctcctgg atttggagtg gtgcaagctg gaaccccaga gcgaaataca	420
gtttgcaaaa gatgtccaga tgggttcttc tcaaatgaga cgtcatctaa agcaccctgt	480
agaaaacaca caaattgcag tgtcttttgt ctcttgctaa ctcagaaagg aaatgcaaca	540
cacgacaaca tatgttccgg aaacagtga tcaactcaaa aatgtggaat agatattgac	600
ctctgtgaaa acagcgtgca gcggcacatt ggacatgcta acctcacctt cgagcagctt	660
cgtagcttga tggaaagctt accgggaaag aaagtgggag cagaagacat tgaaaaaaca	720
ataaaggcat gcaaaccag tgaccagatc ctgaagctgc tcagtttgtg gcgaataaaa	780



aatggcgacc aagacacctt gaagggccta atgcacgcac taaagcactc aaagacgtac	840
cactttccca aaactgtcac tcagagtcta aagaagacca tcaggttcct tcacagcttc	900
acaatgtaca aattgtatca gaagttatTT ttagaaatga taggtaacca ggtccaatca	960
gtaaaaataa gctgcttata a	981

<210> 93  
 <211> 984  
 <212> DNA  
 <213> Homo sapiens

<400> 93	
atgaacaact tgctgtgctg cgcgctcgtg tttctggaca tctccattaa gtggaccacc	60
caggaaacgt ttcctccaaa gtaccttcat tatgacgaag aaacctctca tcagctgttg	120
tgtgacaaat gtcctcctgg tacctaccta aaacaacact gtacagcaaa gtggaagacc	180
gtgtgcgccc cttgccctga ccactactac acagacagct ggcacaccag tgacgagtgt	240
ctatactgca gccccgtgtg caaggagctg cagtacgtca agcaggagtgt caatcgacc	300
cacaaccgcg tgtgcgaatg caaggaaggc cgctaccttg agatagagtt ctgcttgaaa	360
cataggagct gccctcctgg atttggagtgt gtgcaagctg gaaccccaga gcgaaatata	420
gtttgcaaaa gatgtccaga tgggttcttc tcaaatgaga cgtcatctaa agcacctgt	480
agaaaacaca caaattgcag tgtcttttgt ctctgctaa ctcagaaagg aatgcaaca	540
cacgacaaca tatgttccgg aaacagtga tcaactcaaa aatgtggaat agatgttacc	600
ctgtgtgagg aggcattctt caggtttgct gttcctacaa agtttacgcc taactggctt	660
agtgtcttgg tagacaattt gcctggcacc aaagtaaacg cagagagtgt agagaggata	720
aaacggcaac acagctcaca agaacagact ttccagctgc tgaagttatg gaaacatcaa	780
aacaaagacc aagatatagt caagaagatc atccaagacg cactaaagca ctcaaagacg	840
taccactttc ccaaaactgt cactcagagt cttaaagaaga ccatcagggt ccttcacagc	900
ttcacaatgt acaaattgta tcagaagtta tttttagaaa tgataggtaa ccagggtccaa	960
tcagtaaaaa taagctgctt ataa	984

<210> 94  
 <211> 1200  
 <212> DNA  
 <213> Homo sapiens

<400> 94	
atgaacaact tgctgtgctg cgcgctcgtg tttctggaca tctccattaa gtggaccacc	60

caggaaacgt ttcttccaaa gtaccttcat tatgacgaag aaacctctca tcagctgttg	120
tgtgacaaat gtcttcttg tacctaccta aaacaacact gtacagcaaa gtggaagacc	180
gtgtgcgccc cttgccctga ccactactac acagacagct ggcacaccag tgacgagtgt	240
ctatactgca gccccgtgtg caaggagctg cagtacgtca agcaggagtgt caatcgacc	300
cacaaccgcg tgtgcgaatg caaggaaggg cgctaccttg agatagagtt ctgcttgaaa	360
cataggagct gccctccttg atttggagtgt gtgcaagctg gaaccccaga gcgaaataca	420
gtttgcaaaa gatgtccaga tgggttcttc tcaaatagaga cgtcatctaa agcaccctgt	480
agaaaacaca caaattgcag tgtcttttgt ctcttgctaa ctcagaaagg aaatgcaaca	540
cacgacaaca tatgttccgg aaacagtga tcaactcaaa aatgtggaat agatgttacc	600
ctgtgtgagg aggcattctt cagggttgct gttcctacaa agtttacgcc taactggctt	660
agtgtcttgg tagacaattt gcctggcacc aaagtaaacg cagagagtgt agagaggata	720
aaacggcaac acagctcaca agaacagact ttccagctgc tgaagttatg gaaacatcaa	780
aacaaagacc aagatatagt caagaagatc atccaagata ttgacctctg tgaaaacagc	840
gtgcagcggc acattggaca tgctaacctc accttcgagc agcttcgtag cttgatggaa	900
agcttaccgg gaaagaaaagt gggagcagaa gacattgaaa aaacaataaa ggcattgcaaa	960
cccagtgacc agatcctgaa gctgctcagt ttgtggcgaa taaaaaatgg cgaccaagac	1020
accttgaagg gcctaatagca cgcactaaag cactcaaaga cgtaccactt tccaaaact	1080
gtcactcaga gtctaaagaa gaccatcagg ttcttcaca gcttcacaat gtacaaattg	1140
tatcagaagt tattttttaga aatgataggt aaccaggtcc aatcagtaaa aataagctaa	1200

<210> 95  
 <211> 1056  
 <212> DNA  
 <213> Homo sapiens

<400> 95	
atgaacaact tgctgtgctg cgcgctcgtg tttctggaca tctccattaa gtggaccacc	60
caggaaacgt ttcttccaaa gtaccttcat tatgacgaag aaacctctca tcagctgttg	120
tgtgacaaat gtcttcttg tacctaccta aaacaacact gtacagcaaa gtggaagacc	180
gtgtgcgccc cttgccctga ccactactac acagacagct ggcacaccag tgacgagtgt	240
ctatactgca gccccgtgtg caaggagctg cagtacgtca agcaggagtgt caatcgacc	300
cacaaccgcg tgtgcgaatg caaggaaggg cgctaccttg agatagagtt ctgcttgaaa	360

cataggagct gccctcctgg atttggagtg gtgcaagctg gaaccccaga gcgaaataca	420
gtttgcaaaa gatgtccaga tgggttcttc tcaaatgaga cgtcatctaa agcaccctgt	480
agaaaacaca caaattgcag tgtcttttggc ctcttgctaa ctcagaaagg aaatgcaaca	540
cacgacaaca tatgttccgg aaacagtgaa tcaactcaaa aatgtggaat agatgttacc	600
ctgtgtgagg aggcatctct caggtttgct gttcctacaa agtttacgcc taactggctt	660
agtgtcttgg tagacaatct gcctggcacc aaagtaaagc cagagagtgt agagaggata	720
aaacggcaac acagctcaca agaacagact ttccagctgc tgaagttatg gaaacatcaa	780
aacaaagacc aagatatagt caagaagatc atccaagata ttgacctctg tgaaaacagc	840
gtgcagcggc acattggaca tgctaacctc accttcgagc agcttcgtag cttgatggaa	900
agcttaccgg gaaagaaagt gggagcagaa gacattgaaa aaacaataaa ggcatgcaaa	960
cccagtgacc agatcctgaa gctgctcagt ttgtggcgaa taaaaaatgg cgaccaagac	1020
accttgaagg gcctaatagca cgcactaaag cactga	1056

<210> 96  
 <211> 819  
 <212> DNA  
 <213> Homo sapiens

<400> 96	
atgaacaact tgctgtgctg cgcgctcgtg tttctggaca tctccattaa gtggaccacc	60
caggaaacgt ttcttccaaa gtaccttcat tatgacgaag aaacctctca tcagctgttg	120
tgtgacaaat gtcctcctgg tacctaccta aaacaacact gtacagcaaa gtggaagacc	180
gtgtgcgccc cttgccctga ccaactactac acagacagct ggcacaccag tgacgagtgt	240
ctatactgca gccccgtgtg caaggagctg cagtacgtca agcaggagtgt caatcgcacc	300
cacaaccgcg tgtgcgaatg caaggaaggc cgctaccttg agatagagtt ctgcttgaaa	360
cataggagct gccctcctgg atttggagtg gtgcaagctg gaaccccaga gcgaaataca	420
gtttgcaaaa gatgtccaga tgggttcttc tcaaatgaga cgtcatctaa agcaccctgt	480
agaaaacaca caaattgcag tgtcttttggc ctcttgctaa ctcagaaagg aaatgcaaca	540
cacgacaaca tatgttccgg aaacagtgaa tcaactcaaa aatgtggaat agatgttacc	600
ctgtgtgagg aggcatctct caggtttgct gttcctacaa agtttacgcc taactggctt	660
agtgtcttgg tagacaatct gcctggcacc aaagtaaagc cagagagtgt agagaggata	720
aaacggcaac acagctcaca agaacagact ttccagctgc tgaagttatg gaaacatcaa	780

aacaaagacc aagatatagt caagaagatc atccaatga

819

<210> 97

<211> 594

<212> DNA

<213> Homo sapiens

<400> 97

atgaacaact tgctgtgctg cgcgctcgtg tttctggaca tctccattaa gtggaccacc 60

caggaaacgt ttcctccaaa gtaccttcat tatgacgaag aaacctctca tcagctgttg 120

tgtgacaaat gtcctcctgg tacctaccta aaacaacact gtacagcaaa gtggaagacc 180

gtgtgcgccc cttgccctga ccactactac acagacagct ggcacaccag tgacgagtgt 240

ctatactgca gccccgtgtg caaggagctg cagtacgtca agcaggagtgt caatcgcacc 300

cacaaccgcg tgtgcgaatg caaggaaggg cgctaccttg agatagagtt ctgcttgaaa 360

cataggagct gccctcctgg atttggagtgt gtgcaagctg gaaccccaga gcgaaatata 420

gtttgcaaaa gatgtccaga tgggttcttc tcaaatgaga cgtcatctaa agcacctgt 480

agaaaacaca caaattgcag tgtcttttgt ctctgctaa ctcagaaagg aaatgcaaca 540

cacgacaaca tatgttccgg aaacagtga tcaactcaaa aatgtggaat atga 594

<210> 98

<211> 432

<212> DNA

<213> Homo sapiens

<400> 98

atgaacaact tgctgtgctg cgcgctcgtg tttctggaca tctccattaa gtggaccacc 60

caggaaacgt ttcctccaaa gtaccttcat tatgacgaag aaacctctca tcagctgttg 120

tgtgacaaat gtcctcctgg tacctaccta aaacaacact gtacagcaaa gtggaagacc 180

gtgtgcgccc cttgccctga ccactactac acagacagct ggcacaccag tgacgagtgt 240

ctatactgca gccccgtgtg caaggagctg cagtacgtca agcaggagtgt caatcgcacc 300

cacaaccgcg tgtgcgaatg caaggaaggg cgctaccttg agatagagtt ctgcttgaaa 360

cataggagct gccctcctgg atttggagtgt gtgcaagctg gaaccccaga gcgaaatata 420

gtttgcaaat ga 432

<210> 99

<211> 321

<212> DNA

<213> Homo sapiens

<400> 99

```
atgaacaact tgctgtgctg cgcgctcgtg tttctggaca tctccattaa gtggaccacc 60
caggaaacgt ttcctccaaa gtaccttcat tatgacgaag aaacctctca tcagctgttg 120
tgtgacaaat gtcctcctgg tacctaccta aaacaacact gtacagcaaa gtggaagacc 180
gtgtgcgccc cttgccctga ccactactac acagacagct ggcacaccag tgacgagtgt 240
ctatactgca gccccgtgtg caaggagctg cagtacgtca agcaggagtgt caatcgcacc 300
cacaaccgcg tgtgcgaatg a 321
```

<210> 100

<211> 1182

<212> DNA

<213> Homo sapiens

<400> 100

```
atgaacaact tgctgtgctg cgcgctcgtg tttctggaca tctccattaa gtggaccacc 60
caggaaacgt ttcctccaaa gtaccttcat tatgacgaag aaacctctca tcagctgttg 120
tgtgacaaat gtcctcctgg tacctaccta aaacaacact gtacagcaaa gtggaagacc 180
gtgtgcgccc cttgccctga ccactactac acagacagct ggcacaccag tgacgagtgt 240
ctatactgca gccccgtgtg caaggagctg cagtacgtca agcaggagtgt caatcgcacc 300
cacaaccgcg tgtgcgaatg caaggaaggg cgctaccttg agatagagtt ctgcttgaaa 360
cataggagct gccctcctgg atttgagtg gtgcaagctg gaaccccaga gcgaaataca 420
gtttgcaaaa gatgtccaga tgggttcttc tcaaatgaga cgtcatctaa agcaccctgt 480
agaaaacaca caaattgcag tgtcttttgt ctctgtctaa ctcagaaaagg aaatgcaaca 540
cacgacaaca tatgttccgg aaacagtga tcaactcaaa aatgtggaat agatgttacc 600
ctgtgtgagg aggcattctt caggtttgct gttcctacaa agtttacgcc taactggctt 660
agtgtcttgg tagacaattt gcctggcacc aaagtaaacy cagagagtgt agagaggata 720
aaacggcaac acagctcaca agaacagact ttccagctgc tgaagttatg gaaacatcaa 780
aacaagacc aagatatagt caagaagatc atccaagata ttgacctctg tgaaaacagc 840
gtgcagcggc acattggaca tgctaacctc accttcgagc agcttcgtag cttgatggaa 900
agcttaccgg gaaagaaagt gggagcagaa gacattgaaa aaacaataaa ggcattgcaaa 960
cccagtgacc agatcctgaa gctgctcagt ttgtggcgaa taaaaaatgg cgaccaagac 1020
accttgaagg gcctaattga cgactaaag cactcaaaga cgtaccactt tcccaaaact 1080
```

gtcactcaga gtctaaagaa gaccatcagg ttccttcaca gcttcacaat gtacaaattg 1140  
tadcagaagt tatTTTTtaga aatgataggt aacctagtct ag 1182

<210> 101  
<211> 966  
<212> DNA  
<213> Homo sapiens

<400> 101  
atgaacaact tgctgtgctg cgcgctcgtg tttctggaca tctccattaa gtggaccacc 60  
caggaaacgt ttcctccaaa gtaccttcat tatgacgaag aaacctctca tcagctgttg 120  
tgtgacaaat gtcctcctgg tacctaccta aaacaacact gtacagcaaa gtggaagacc 180  
gtgtgcgccc cttgccctga ccactactac acagacagct ggcacaccag tgacgagtgt 240  
ctatactgca gccccgtgtg caaggagctg cagtacgtca agcaggagtgt caatcgcacc 300  
cacaaccgcg tgtgcgaatg caaggaaggg cgctaccttg agatagagtt ctgcttgaaa 360  
cataggagct gccctcctgg atttggagtgt gtgcaagctg gaaccccaga gcgaaatata 420  
gtttgcaaaa gatgtccaga tgggttcttc tcaaatgaga cgtcatctaa agcacccctgt 480  
agaaaacaca caaattgcag tgtcttttgt ctcttgctaa ctcagaaagg aaatgcaaca 540  
cacgacaaca tatgttccgg aaacagtga tcaactcaaa aatgtggaat agatgttacc 600  
ctgtgtgagg aggcattctt caggtttgct gttcctacaa agtttacgcc taactggctt 660  
agtgtcttgg tagacaattt gcctggcacc aaagtaaacg cagagagtgt agagaggata 720  
aaacggcaac acagctcaca agaacagact ttccagctgc tgaagttatg gaaacatcaa 780  
aacaaagacc aagatatagt caagaagatc atccaagata ttgacctctg tgaaaacagc 840  
gtgcagcggc acattggaca tgctaacctc accttcgagc agcttcgtag cttgatggaa 900  
agcttaccgg gaaagaaagt gggagcagaa gacattgaaa aaacaataaa ggctagtcta 960  
gactag 966

<210> 102  
<211> 564  
<212> DNA  
<213> Homo sapiens

<400> 102  
atgaacaact tgctgtgctg cgcgctcgtg tttctggaca tctccattaa gtggaccacc 60  
caggaaacgt ttcctccaaa gtaccttcat tatgacgaag aaacctctca tcagctgttg 120

tgtgacaaat gtcctcctgg tacctaccta aaacaacact gtacagcaaa gtggaagacc	180
gtgtgcgccc cttgccctga ccactactac acagacagct ggcacaccag tgacgagtgt	240
ctatactgca gccccgtgtg caaggagctg cagtacgtca agcaggagtg caatcgcacc	300
cacaaccgcg tgtgcgaatg caaggaaggg cgctaccttg agatagagtt ctgcttgaaa	360
cataggagct gccctcctgg atttgagtg gtgcaagctg gaaccccaga gcgaaatata	420
gtttgcaaaa gatgtccaga tgggttcttc tcaaattgaga cgtcattctaa agcaccctgt	480
agaaaacaca caaattgcag tgtcttttgt ctcttgctaa ctcagaaagg aaatgcaaca	540
cacgacaaca tatgttccgg ctag	564

<210> 103  
 <211> 255  
 <212> DNA  
 <213> Homo sapiens

<400> 103	
atgaacaact tgctgtgctg cgcgctcgtg tttctggaca tctccattaa gtggaccacc	60
caggaaacgt ttcctccaaa gtaccttcat tatgacgaag aaacctctca tcagctgttg	120
tgtgacaaat gtcctcctgg tacctaccta aaacaacact gtacagcaaa gtggaagacc	180
gtgtgcgccc cttgccctga ccactactac acagacagct ggcacaccag tgacgagtgt	240
ctatacctag tctag	255

<210> 104  
 <211> 1317  
 <212> DNA  
 <213> Homo sapiens

<400> 104	
ctggagacat ataacttgaa cacttggccc tgatggggaa gcagctctgc agggactttt	60
tcagccatct gtaaacaatt tcagtggcaa cccgcgaact gtaatccatg aatgggacca	120
cactttacaa gtcattcaagt ctaacttcta gaccagggaa ttaatggggg agacagcgaa	180
ccctagagca aagtgccaaa cttctgtcga tagcttgagg ctagtggaag gacctcgagg	240
aggctactcc agaagttcag cgcgtaggaa gctccgatac caatagccct ttgatgatgg	300
tggggtttgt gaagggaaca gtgctccgca aggttatccc tgccccaggc agtccaattt	360
tcaactctgca gattctctct ggctctaact accccagata acaaggagtg aatgcagaat	420
agcacgggct ttagggccaa tcagacatta gttagaaaaa ttctactac atggtttatg	480
taaacttgaa gatgaatgat tgcgaactcc ccgaaaaggg ctcagacaat gccatgcata	540

aagagggggcc ctgtaatttg aggtttcaga acccgaagtg aaggggtcag gcagccgggt	600
acggcgga aaa ctcacagctt tcgcccagcg agaggacaaa ggtctgggac aactccaac	660
tgcgtccgga tcttggctgg atcggactct caggggtggag gagacacaag cacagcagct	720
gcccagcgtg tgcccagccc tcccaccgct ggtcccggct gccaggaggc tggccgctgg	780
cgggaagggg ccgggaaacc tcagagcccc gcggagacag cagccgcctt gttcctcagc	840
ccggtggctt ttttttcccc tgctctccca ggggacagac accaccgccc caccctcac	900
gccccacctc cctgggggat cctttccgcc ccagccctga aagcgttaat cctggagctt	960
tctgcacacc ccccgaccgc tcccgcccaa gcttctctaaa aaagaaagg gcaaagtttg	1020
gtccaggata gaaaaatgac tgatcaaagg caggcgatac ttctgtttgc cgggacgcta	1080
tatataacgt gatgagcgca cgggctgcgg agacgcaccg gagcgctcgc ccagccgccg	1140
cctccaagcc cctgagggtt ccggggacca caatgaacaa gttgctgtgc tgcgcgctcg	1200
tggtaaagtc ctgggccagc cgacgggtgc ccggcgctg gggaggctgc tgccacctgg	1260
tctcccaacc tcccagcgga ccggcgggga aaaaggctcc actcgctccc tccaag	1317

<210> 105  
 <211> 10190  
 <212> DNA  
 <213> Homo sapiens

<400> 105	
gcttactttg tgccaaatct cattaggctt aaggtaatac aggactttga gtcaaagat	60
actgttgac ataagaacaa acctattttc atgctaagat gatgccactg tgttcctttc	120
tccttctagt ttctggacat ctccattaag tggaccaccc aggaaacgtt tcctccaaag	180
taccttcatt atgacgaaga aacctctcat cagctgttgt gtgacaaatg tcctcctggt	240
acctacctaa aacaacactg tacagcaaag tggaagaccg tgtgcgcccc ttgccctgac	300
cactactaca cagacagctg gcacaccagt gacgagtgtc tatactgcag ccccggtgtg	360
aaggagctgc agtacgtcaa gcaggagtgc aatcgacccc acaaccgcgt gtgcgaatgc	420
aaggaagggc gctaccttga gatagagttc tgcttgaaac ataggagctg ccctcctgga	480
tttgagtg tgcaagctgg tacgtgtcaa tgtgcagcaa aattaattag gatcatgcaa	540
agtcagatag ttgtgacagt ttaggagaac acttttggtc tgatgacatt ataggatagc	600
aaattgcaaa ggtaatgaaa cctgccagggt aggtactatg tgtctggagt gcttccaaag	660
gaccattgct cagaggaata ctttgccact acagggcaat ttaatgacaa atctcaaag	720



cagcaaatta ttctctcatg agatgcatga tggttttttt tttttttttt aaagaaacaa	780
actcaagttg cactattgat agttgatcta tacctctata tttcacttca gcatggacac	840
cttcaaactg cagcactttt tgacaaacat cagaaatgtt aattttatacc aagagagtaa	900
ttatgctcat attaatgaga ctctggagtg ctaacaataa gcagttataa ttaattatgt	960
aaaaaatgag aatggtgagg ggaattgcat ttcattatta aaaacaaggc tagttcttcc	1020
tttagcatgg gagctgagtg tttgggaggg taaggactat agcagaatct cttcaatgag	1080
cttattcttt atcttagaca aaacagattg tcaagccaag agcaagcact tgctataaa	1140
ccaagtgcct tctcttttgc attttgaaca gcattggtca gggctcatgt gtattgaatc	1200
ttttaaacca gtaaccacg ttttttttct gccacatttg cgaagcttca gtgcagccta	1260
taacttttca tagcttgaga aaattaagag tatccactta cttagatgga agaagtaatc	1320
agtatagatt ctgatgactc agtttgaagc agtgtttctc aactgaagcc ctgctgatat	1380
tttaagaaat atctggattc ctaggctgga ctcttttttg tgggcagctg tcctgcgcac	1440
tgtagaattt tggcagcacc cctggactct agccactaga taccaatagc agtccttccc	1500
ccatgtgaca gccaaaaatg tcttcagaca ctgtcaaatg tcgccaggtg gcaaaatcac	1560
tcctggttga gaacagggtc atcaatgcta agtatctgta actattttaa ctctcaaaac	1620
ttgtgatata caaagtctaa attattagac gaccaatact ttaggtttta aggcatataa	1680
atgaaacatt caaaaatcaa aatctattct gtttctcaaa tagtgaatct tataaaatta	1740
atcacagaag atgcaaattg catcagagtc ccttaaaatt cctcttcgta tgagtatttg	1800
aggagggaat tggatgatag tcctactttc tattggatgg tactttgaga ctcaaaagct	1860
aagctaagtt gtgtgtgtgt cagggtgcgg ggtgtggaat cccatcagat aaaagcaaat	1920
ccatgtaatt cattcagtaa gttgtatatg tagaaaaatg aaaagtgggc tatgcagctt	1980
ggaaactaga gaattttgaa aaataatgga aatcacaagg atctttctta aataagtaag	2040
aaaatctgtt tgtagaatga agcaagcagg cagccagaag actcagaaca aaagtacaca	2100
ttttactctg tgtacactgg cagcacagtg ggatttatit acctctccct ccctaaaaac	2160
ccacacagcg gttcctcttg ggaaataaga ggtttccagc ccaaagagaa ggaaagacta	2220
tgtggtgtta ctctaaaaag tatttaataa ccgttttggt gttgctgttg ctgttttgaa	2280
atcagattgt ctctctcca tattttatit acttcattct gttaattcct gtggaattac	2340
ttagagcaag catggtgaat tctcaactgt aaagccaaat ttctccatca ttataatttc	2400

acattttgcc tggcagggtta taattttttat atttccactg atagtaataa ggtaaaatca	2460
ttacttagat ggatagatct ttttcataaa aagtaccatc agttatagag ggaagtcacg	2520
ttcatgttca ggaagggtcat tagataaagc ttctgaatat attatgaaac attagttctg	2580
tcattcttag attctttttg ttaaataact ttaaaagcta acttacctaa aagaaatatac	2640
tgacacatat gaactttctca ttaggatgca ggagaagacc caagccacag atatgtatct	2700
gaagaatgaa caagattctt agggccggca cgggtggctca catctgtaat ctcaagagtt	2760
tgagagggtca aggcgggcag atcacctgag gtcaggagtt caagaccagc ctggccaaca	2820
tgatgaaacc ctgcctctac taaaaataca aaaattagca gggcatggtg gtgcatgcct	2880
gcaaccctag ctactcagga ggctgagaca ggagaatctc ttgaaccctc gaggcggagg	2940
ttgtggtgag ctgagatccc tctactgcac tccagcctgg gtgacagaga tgagactccg	3000
tccctgccgc cgccccgcc tccccccca aaaagattct tcttcatgca gaacatacgg	3060
cagtcaacaa agggagacct ggggccaggt gtccaagtca cttatttcga gttaaattagc	3120
aatgaaagaa tgccatggaa tccctgcca aatacctctg cttatgatata tgtagaattt	3180
gatatagagt tgtatcccat ttaaggagta ggatgtagta ggaaagtact aaaaacaaac	3240
acacaaacag aaaaccctct ttgctttgta aggtggttcc taagataatg tcagtgcacat	3300
gctggaaata atatttaata tgtgaagggt ttaggctgtg ttttccctc ctgttctttt	3360
tttctgccag ccctttgtca tttttgcagg tcaatgaatc atgtagaaag agacaggaga	3420
tgaaactaga accagtccat tttgcccctt tttttatttt ctggtttttg taaaagatac	3480
aatgaggtag gaggttgaga ttataaaatg aagttaata agtttctgta gctttgattt	3540
ttctctttca tttttgttat cttgcataag ccagaattgg cctgtaaaat ctacatatgg	3600
atattgaagt ctaaattctgt tcaactagct tacactagat ggagatatatt tcatattcag	3660
atacactgga atgtatgatc tagccatgcg taatatagtc aagtgtttga aggtatttat	3720
ttttaatagc gtcttttagtt gtggactggt tcaagttttt ctgccaatga tttcttcaaa	3780
tttatcaaat atttttccat catgaagtaa aatgcccttg cagtcaccct tcctgaagtt	3840
tgaacgactc tgctgtttta aacagtttaa gcaaatggta tatcatcttc cgtttactat	3900
gtagcttaac tgcaggctta cgcttttgag tcagcggcca actttattgc caccttcaaa	3960
agtttattat aatgttgtaa atttttactt ctcaagggtta gcatacttag gagttgcttc	4020
acaattagga ttcaggaaaag aaagaacttc agtaggaact gattggaatt taatgatgca	4080
gcattcaatg ggtactaatt tcaaagaatg atattacagc agacacacag cagttatctt	4140

gatttttctag gaataattgt atgaagaata tggctgacaa cacggcctta ctgccactca	4200
gcggaggctg gactaatgaa caccctaccc ttctttcctt tcctctcaca tttcatgagc	4260
gttttgtagg taacgagaaa attgacttgc atttgcatta caaggaggag aaactggcaa	4320
aggggatgat ggtggaagtt ttgttctgtc taatgaagtg aaaaatgaaa atgctagagt	4380
tttgtgcaac ataatagtag cagtaaaaac caagtgaaaa gtctttccaa aactgtgtta	4440
agagggcatc tgctgggaaa cgatttgagg agaagg tact aaattgcttg gtattttccg	4500
taggaacccc agagcgaaat acagtttgca aaagatgtcc agatgggttc ttctcaa atg	4560
agacgtcatc taaagcaccc tgtagaaaac acacaaattg cagtgtcttt ggtctcctgc	4620
taactcagaa aggaaatgca acacacgaca acatatgttc cggaacacagt gaatcaactc	4680
aaaaatgtgg aataggtaat tacattccaa aatacgtctt tgtacgattt tgtagtatca	4740
tctctctctc tgagttgaac acaaggcctc cagccacatt cttggtcaaa cttacatttt	4800
ccctttcttg aatcttaacc agctaaggct actctcgatg cattactgct aaagctacca	4860
ctcagaatct ctcaaaaact catcttctca cagataacac ctcaaagctt gattttctct	4920
cctttcacac tgaaatcaaa tottgcccat aggcaaaggg cagtgtcaag ttgcccactg	4980
agatgaaatt aggagagtcc aaactgtaga attcacgttg tgtgttatta ctttcacgaa	5040
tgtctgtatt attaactaaa gtatatattg gcaactaaga agcaaagtga tataaacatg	5100
atgacaaatt aggccaggca tgggtggctta ctctataat cccaacattt tggggggcca	5160
aggtaggcag atcacttgag gtcaggattt caagaccagc ctgaccaaca tggtgaaacc	5220
ttgtctctac taaaaataca aaaattagct gggcatggta gcaggcactt ctagtaccag	5280
ctactcaggg ctgaggcagg agaatcgctt gaaccacagga gatggagggt gcagtgagct	5340
gagattgtac cactgcactc cagtctgggc aacagagcaa gatttcatca cacacacaca	5400
cacacacaca cacacacaca ttagaaatgt gtacttggct ttgttaccta tgggtattagt	5460
gcatctattg catggaactt ccaagctact ctggttgtgt taagctcttc attgggtaca	5520
ggtcactagt attaagttca ggttattcgg atgcattcca cggtagtgat gacaattcat	5580
caggctagtg tgtgtgttca ccttgtcact cccaccacta gactaatctc agaccttcac	5640
tcaaagacac attacactaa agatgatttg cttttttgtg tttaatcaag caatggtata	5700
aaccagcttg actctcccca aacagttttt cgtactacaa agaagtttat gaagcagaga	5760
aatgtgaatt gatatatata tgagattcta acccagttcc agcattgttt cattgtgtaa	5820

ttgaaatcat agacaagcca ttttagcctt tgctttctta tctaaaaaaa aaaaaaaaaa	5880
aatgaaggaa ggggtattaa aaggagtgat caaattttaa cattctcttt aattaattca	5940
tttttaattt tacttttttt cattttattgt gcacttacta tgtggtactg tgctatagag	6000
gctttaacat ttataaaaac actgtgaaag ttgcttcaga tgaatatagg tagtagaacg	6060
gcagaactag tattcaaagc cagggtctgat gaatccaaaa acaaacaccc attactccca	6120
ttttctggga catacttact ctaccagat gctctgggct ttgtaatgcc tatgtaaata	6180
acatagtttt atgtttgggt attttctat gtaatgtcta cttatatatc tgtatctatc	6240
tcttgctttg ttccaaaagg taaactatgt gtctaaatgt gggcaaaaaa taacacacta	6300
ttccaaatta ctgttcaaat tcctttaagt cagtataat tatttgtttt gacattaatc	6360
atgaagtccc ctgtgggtac taggtaaacc tttaatagaa tgttaatggt tgtattcatt	6420
ataagaattt ttggctgtta cttatttaca acaatatctt actctaatta gacatttact	6480
aaactttctc ttgaaaacaa tgcccaaaaa agaacattag aagacacgta agctcagttg	6540
gtctctgcc ctaagaccag ccaacagaag cttgatttta ttcaaacttt gcatttttagc	6600
atattttatc ttggaaaatt caattgtgtt ggttttttgt ttttgtttgt attgaataga	6660
ctctcagaaa tccaattggt gagtaaactt tctgggtttt ctaacctttc tttagatggt	6720
acctgtgtg aggaggcatt cttcaggttt gctgttctta caaagtttac gcctaactgg	6780
cttagtgtct tggtagacaa ttgacctggc accaaagtaa acgcagagag tgtagagagg	6840
ataaacggc aacacagctc acaagaacag actttccagc tgctgaagtt atggaaacat	6900
caaaacaaag accaagatat agtcaagaag atcatccaag gtaattacat tccaaaatac	6960
gtctttgtac gattttgtag tatcatctct ctctctgagt tgaacacaag gcctccagcc	7020
acattcttgg tcaaacttac attttccctt tcttgaatct taaccagcta aggctactct	7080
cgatgcatta ctgctaaagc taccactcag aatctctcaa aaactcatct tctcacagat	7140
aacacctcaa agcttgattt tctctccttt cacttgaaa tcaaactttg cccataggca	7200
aagggcagtg tcaagtttgc cactgagatg aaattaggag agtccaaact gtagaattca	7260
cgttgtgtgt tattactttc acgaatgtct gtattattaa ctaaagtata tattggcaac	7320
taagaagcaa agtgatataa acatgatgac aaattaggcc aggcattggtg gcttactcct	7380
ataatcccaa catTTTgggg ggccaaggta ggcagatcac ttgaggtcag gatttcaaga	7440
ccagcctgac caacatggtg aaaccttgct tctactaaaa atacaaaaat tagctgggca	7500
tggtagcagg cacttctagt accagctact cagggtgag gcaggagaat cgcttgaacc	7560

caggagatgg aggttgcagt gagctgagat tgtaccactg cactccagtc tgggcaacag	7620
agcaagattt catcacacac acacacacac acacacacac acacattaga aatgtgtact	7680
tggctttgtt acctatggta ttagtgcacg tattgcatgg aacttccaag ctactctggt	7740
tgtgttaagc tcttcattgg gtacagggtca ctagtattaa gttcagggtta ttcggatgca	7800
ttccacggta gtgatgacaa ttcacagggc tagtgtgtgt gttcaccttg tcaactccac	7860
cactagacta atctcagacc ttcactcaaa gacacattac actaaagatg atttgctttt	7920
ttgtgtttta tcaagcaatg gtataaacca gcttgactct ccccaaacag tttttcgtac	7980
tacaaagaag tttatgaagc agagaaatgt gaattgatat atatatgaga ttctaacca	8040
gttccagcat tgtttcattg tgtaattgaa atcatagaca agccatttta gcctttgctt	8100
tcttatctaa aaaaaaaaaa aaaaaaatga aggaaggggt attaaaagga gtgatcaa	8160
tttaacattc tctttaatta attcattttt aattttactt tttttcattt attgtgcact	8220
tactatgtgg tactgtgcta tagaggcttt aacatttata aaaacactgt gaaagttgct	8280
tcagatgaat ataggtagta gaacggcaga actagtattc aaagccagggt ctgatgaatc	8340
caaaaacaaa caccattac tccattttt tgggacatac ttactctacc cagatgctct	8400
gggctttgta atgcctatgt aaataacata gttttatgtt tggttatttt cctatgtaat	8460
gtctacttat atatctgtat ctatctottg ctttgtttcc aaaggtaa	8520
aatgtgggca aaaaataaca cactattcca aattactgtt caaattcctt taagtcagt	8580
ataattattt gttttgacat taatcatgaa gttccctgtg ggtactaggt aaaccttta	8640
tagaatgtta atgtttgtat tcattataag aatttttggc tgttacttat ttacaaca	8700
atttcactct aattagacat ttactaaact ttctcttgaa aacaatgcc aaaaaaga	8760
attagaagac acgtaagctc agttgggtctc tgccactaag accagccaac agaagctt	8820
ttttattcaa actttgcatt ttagcatatt ttatcttgga aaattcaatt gtgttggtt	8880
tttgtttttg tttgtattga atagactctc agaaatccaa ttgttgagta aatcttct	8940
gttttctaac ctttctttag atattgacct ctgtgaaaac agcgtgcagc ggcacatt	9000
acatgctaac ctcaccttcg agcagcttcg tagcttgatg gaaagcttac cgggaaag	9060
agtgggagca gaagacattg aaaaaacaat aaaggcatgc aaaccagtg accagatcct	9120
gaagctgctc agtttgtggc gaataaaaaa tggcgaccaa gacaccttga agggccta	9180
gcacgcacta aagcactcaa agacgtacca ctttcccaaa actgtcactc agagtctaaa	9240

gaagaccatc aggttccttc acagcttcac aatgtacaaa ttgtatcaga agttatTTTT 9300  
 agaaatgata ggtaaccagg tccaatcagt aaaaataagc tgcttataac tggaaatggc 9360  
 cattgagctg tttcctcaca attggcgaga tcccatggat gagtaaactg tttctcaggc 9420  
 acttgaggct ttcagtgata tctttctcat taccagtgc taattttgcc acaggggtact 9480  
 aaaagaaact atgatgtgga gaaaggacta acatctcctc caataaaccc caaatgggta 9540  
 atccaactgt cagatctgga tcgttatcta ctgactatat tttcccttat tactgcttgc 9600  
 agtaattcaa ctggaaatta aaaaaaaaaa actagactcc actgggcctt actaaatatg 9660  
 ggaatgtcta acttaaatag ctttgggatt ccagctatgc tagaggcttt tattagaaag 9720  
 ccatatTTTT ttctgtaaaa gttactaata tatctgtaac actattacag tattgctatt 9780  
 tatattcatt cagatataag atttggacat attatcatcc tataaagaaa cggtatgact 9840  
 taattttaga aagaaaatta tattctgttt attatgacaa atgaaagaga aaatatatat 9900  
 ttttaatgga aagttttag catttttcta ataggtactg ccatatTTTT ctgtgtggag 9960  
 tatttttata attttatctg tataagctgt aatatcatTT tatagaaaat gcattattta 10020  
 gtcaattgtt taatgttggg aaacatatga aatataaatt atctgaatat tagatgctct 10080  
 gagaaattga atgtacctta tttaaaagat tttatgggtt tataactata taaatgacat 10140  
 tattaaagtt ttcaaattat tttttattgc tttctctggt gcttttattt 10190

<210> 106  
 <211> 391  
 <212> PRT  
 <213> Homo sapiens

<400> 106

Phe Leu Asp Ile Ser Ile Lys Trp Thr Thr Gln Glu Thr Phe Pro Pro  
 1 5 10 15

Lys Tyr Leu His Tyr Asp Glu Glu Thr Ser His Gln Leu Leu Cys Asp  
 20 25 30

Lys Cys Pro Pro Gly Thr Tyr Leu Lys Gln His Cys Thr Ala Lys Trp  
 35 40 45

Lys Thr Val Cys Ala Pro Cys Pro Asp His Tyr Tyr Thr Asp Ser Trp  
 50 55 60

His Thr Ser Asp Glu Cys Leu Tyr Cys Ser Pro Val Cys Lys Glu Leu

65	70	75	80
Gln Tyr Val Lys	Gln Glu Cys Asn Arg	Thr His Asn Arg	Val Cys Glu
	85	90	95
Cys Lys Glu Gly	Arg Tyr Leu Glu Ile	Glu Phe Cys Leu	Lys His Arg
	100	105	110
Ser Cys Pro Pro	Gly Phe Gly Val Val	Gln Ala Gly Thr	Pro Glu Arg
	115	120	125
Asn Thr Val Cys	Lys Arg Cys Pro Asp	Gly Phe Phe Ser	Asn Glu Thr
	130	135	140
Ser Ser Lys Ala	Pro Cys Arg Lys His	Thr Asn Cys Ser	Val Phe Gly
	145	150	155
Leu Leu Leu Thr	Gln Lys Gly Asn Ala	Thr His Asp Asn	Ile Cys Ser
	165	170	175
Gly Asn Ser Glu	Ser Thr Gln Lys Cys	Gly Ile Asp Val	Thr Leu Cys
	180	185	190
Glu Glu Ala Phe	Phe Arg Phe Ala Val	Pro Thr Lys Phe	Thr Pro Asn
	195	200	205
Trp Leu Ser Val	Leu Val Asp Asn Leu	Pro Gly Thr Lys	Val Asn Ala
	210	215	220
Glu Ser Val Glu	Arg Ile Lys Arg Gln	His Ser Ser Gln	Glu Gln Thr
	225	230	235
Phe Gln Leu Leu	Lys Leu Trp Lys His	Gln Asn Lys Asp	Gln Asp Ile
	245	250	255
Val Lys Lys Ile	Ile Gln Asp Ile Asp	Leu Cys Glu Asn	Ser Val Gln
	260	265	270
Arg His Ile Gly	His Ala Asn Leu Thr	Phe Glu Gln Leu	Arg Ser Leu
	275	280	285
Met Glu Ser Leu	Pro Gly Lys Lys Val	Gly Ala Glu Asp	Ile Glu Lys
	290	295	300

Thr Ile Lys Ala Cys Lys Pro Ser Asp Gln Ile Leu Lys Leu Leu Ser  
 305 310 315 320

Leu Trp Arg Ile Lys Asn Gly Asp Gln Asp Thr Leu Lys Gly Leu Met  
 325 330 335

His Ala Leu Lys His Ser Lys Thr Tyr His Phe Pro Lys Thr Val Thr  
 340 345 350

Gln Ser Leu Lys Lys Thr Ile Arg Phe Leu His Ser Phe Thr Met Tyr  
 355 360 365

Lys Leu Tyr Gln Lys Leu Phe Leu Glu Met Ile Gly Asn Gln Val Gln  
 370 375 380

Ser Val Lys Ile Ser Cys Leu  
 385 390

<210> 107  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Sequence

<220>  
 <221> misc\_feature  
 <222> (12)..(12)  
 <223> n = unknown

<400> 107  
 cargarcara cnttycaryt

20

<210> 108  
 <211> 21  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Sequence

<220>  
 <221> misc\_feature  
 <222> (10)..(10)  
 <223> n = unknown



<220>  
<221> misc\_feature  
<222> (16)..(16)  
<223> n = unknown

<400> 108  
ytttrtacatn gtraanswrt g

21